3. AFOLUX Vertical Application Panel PCs

AFOLUX all-in-one PPC series based on its integrated multi-functions design grows to include new vertical market applications, permitting extremely flexible integration into a wide variety of applications, such as: high performance KIOSK solution, entry level all-in-one POS Panel PC RFID solution and so on.



Retail Solutions

AFL-3 series

- Shinny black/white glossy surface
- Back IO design allows installation in minutes
- Rich connectivity and built-in CMOS camera and microphone

Page 1-46



AFL2D-12A(B) Fanless

 12.1" Panel PC integrated with wide-angle, illumination 1D/2D Barcode scan module

Page 1-51



IMK-571R Fanless

- 5.7" Panel PC integrated with wideangle, illumination 1D/2D barcode engine
- Support PoE (Power Over Ethernet)
 agile deployment

Page 1-54





In-Wall Mount Solutions

AFL-4 series Fanless

- In-wall mounting design to have the system
 flush with the wall with no visible wall mount
- Changeable face plate and face plate skin sticker available to match diverse decoration styles
- One digital I/O (4 input/ 4 output)

Page 1-59



Fan-less Dual Core Solutions

AFL-5 series Fanless

- 17" fanless system integrated with Intel® GM45 chipset and 45nm mobile Core
- Optical drive for option

Page 1-70





Large Screen Solutions

AFL-6 series

- 42" FULL HD all-in-one Panel PCs with anti-scratch SAW touch panel
- Optical drive for option

Page 1-76



RFID Solutions

ACT series Fanless

- Integrated RFID reader in front of the panel for MIFARE 13.56 MHz or EM 125 KHz RFID tag
- Built-in 300K pixel camera and microphone

Page 1-83



Selection Guide

| Product Line | Dietferm | 5.7" | 8" | 8.4" | Wide 10.2" | 12.1" | 15" | 17" | 42" |
|--|----------------------------|---------------------|-------------------|-------------------|--------------------|-------------------|---------------------------------|---------------|----------------|
| | Platform | 640 x 480 | 800 x 600 | 800 x 600 | 1024 x 600 | 1024 x 768 | 1024 x 768 | 1280 x 1024 | 1920 x 1080 |
| Retail Solutions AFL-3 Series | Intel® 945G | | | | | | AFL-315A | AFL-317A | |
| In-Wall Mount Solutions AFL-4 Series | Intel® 945GSE (ATOM) | | AFL- 408B-N270 | AFL- 408A-N270 | AFL- W410A-N270 | AFL- 412A-N270 | AFL-415A-N270 AFL-415AE-N270 | | |
| Fanless Dual Core Solutions AFL-5 Series | Intel® GM45 | | | | | | | AFL-517A-GM45 | |
| Large Screen Solutions AFL-6 Series | Intel® GM45 | | | | | | | | AFL-642AE-GM45 |
| | Intel® 910GMLE | | | ACT- 08A-9103 | | | | | |
| RFID Solutions ACT Series | Intel® 945GSE (ATOM) | | ACT- 408A-N270 | ACT- 08A-N270 | | ACT-412A-N270 | | | |
| | RMI Alchemy™ AU1250 | ACT-457A- AU1250 | | | | | | | |

Note: Product model name "E" stands for economical model

Retail Solutions

AFOLUX-3 Series

15/17 inch Core™2 Duo Industrial KIOSK Panel PC

- Sophisticated high reflection surface Smooth and easy cleaning surface easily fits any kind of KIOSK enclosure
- All-in-one highly integrated design

Multiple functions and connectors built in the one unit system fits all self service solutions and not only decreases maintenance time but also saves the space considerably

Versatile mounting solutions and back IO design allows installed

Faster installation into device such as KIOSK and ATM

IP 64 front panel compliance

System operation in a dusty or wet rigorous environment

• IEI One Key Recovery solution allows you to create rapid OS backup and recovery



AFL-315A/ AFL-317A









KIOSK Ready System





Easy to Installation

- Light Weight 10.2 kg Only
- Slim Type 82 mm ultra slim design
- Smart Mechanism

Back IO design allows easy cable arrangement and installation



AFL-315AB / AFL-317AB

| Process CPU clock FSB L2 Cach | ie TDP |
|-----------------------------------|--------|
| E6400 2.13G 2MB | |
| E6320 1.86G 1066 4MB | |
| Core™2 Duo E6300 1.86G 2MB | |
| E4400 2G 2MB | 65W |
| E4300 1.8G ₈₀₀ 2MB | |
| Pentium® Dual Core E2160 1.8G 1MB | |
| 440 2.00G | |
| Celeron® 430 1.8G 800 512K | 35W |
| 420 1.6G | |
| 965 3.73G 1066 | 130W |
| 955 3.46G 2X2M | 130W |
| 960 3.6G 2XZW | 130W |
| 950 3.4G | 130W |

Powerful Computing

Manufactured with open system design, IEI AFOLUX KIOSK panel PC offers flexible configuration in space-saving form factor. It comes with:

- 15 inch 1024 x 768(XGA), 17 inch 1280 x 1024(SXGA) active matrix LCD touchscreen interface
- Powered by 1.8 GHz Intel® Dual Core Desktop Processor with $533/800/1066\ \text{MHz}$ FSB and 512 KB cache, product provides DDR2 1GB of memory, expandable to 4GB

For kiosk application, powerful computing is strongly required to deliver high computing power and multi-task performance.

| Dual-Core | | | |
|-----------|------------|------------|--|
| | AS APIC | AS APIC | |
| | PRE | PRE | |



APIC = Advanced Programmable Interrupt Controller
PER = Processor Execution Resources (execution units, instruction decode, etc.)



All-in-One System

Typical KIOSK System



Seperate peripherals occupy the space and produce additainal purchase of proprietary cables for specific devices

AFOLUX KIOSK PPC

Designed for style, performance, and state-of-the-art built-in functions in a single package

- Space saving
- Cost saving
- No peripheral installation
- No cable installation

AFL-315/AFL-317 KIOSK Ready System







Higher Performance, More Energy-Efficiency



A preinstalled Bluetooth module communicates with a wide range of electronic products from PDAs, cellular phones and printers, to barcode readers.





The integrated PIFA antenna on the AFOLUX ensures an uninterrupted wireless connection. PIFA type antennas can receive high-quality, uniform signals in any location from all directions without any signal degradation or impedance and are the most efficient.

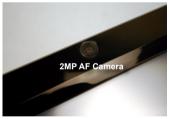


High Performance Multimedia

AFL-315A / 317A provides outstanding image quality and high performance, immersive multimedia play back. Users will experience revolutionary performance, unbelievable system responsiveness from the following enhanced multimedia features.



• Built-in 0.3 mega-pixel webcam with digital microphone (AFL-317A)



• Built-in 2.0 mega-pixel webcam with auto focus (AFL-315A)



• Built-in two 1.5W IP 64 water proof stereo speakers



• External audio (Line in, Line out, MIC in supported)



Dual Display

Equipped with VGA and DVI out interfaces allow second display connection to extend or duplicate your content, whether in advertising, inform or interact.



Choosing any two from main screen, VGA or DVI as dual display targets.



Independent Display





Interview KIOSK



Check-in KIOSK in the airport



Multimedia Feature

The AFL-315A / 317A built-in CMOS camera module is specially designed and fabricated for KIOSK applications. The camera module combines a UXGA CMOS sensor with integrated lens to deliver high performance images quality. It has a USB2.0 High Speed interface and has the capability of transferring uncompressed data in UXGA mode at 15 fps and VGA mode at 30 fps.

AFL-315A

- XGA resolution image sensor
- Video resolution: 1600x1200, 1280x1024, 1024x768, 2MP AF Camera

800x600, 640x480, 352x288, 320x240, 176x144, 160x120.

• Frame rate: 1600x1200@ 15 fps max, 640x480@ 30fps max.

• Video format: YUY2' MJPG' I240

• Max. image transfer rate: 2M @ MJPG 15fps; 1.3M @ MJPG 15fps; VGA @ MJPG 30fps

- Auto white balance
- Auto exposure
- Auto gain control
- Auto Focus@ 10cm ~ infinity..
- High speed USB2.0 interface
- GA compliant





AFL-317A

- VGA resolution image sensor
- Video resolution: 640x480, 352x288, 320x240, 176x144, 160x120.
- Frame rate: 640x480@ 30fps max.
- Auto white balance
- Auto exposure
- Auto compensation
- Focus range of 25 cm to Infinity
- Flip Control Option
- High speed USB2.0 interface
- . Storage Format of Image: AVI
- Storage Format of Photograph: BMP, JPEG
- Digital Microphone x 2

Note: Optional 1.3MP Camera with Digital Microphone Module HR Employees / Job Applications Kiosk



Desk top KIOSK for employee fill out online forms and interview with



Rich Connectivity





Four RS-232 with selectable 5V/12V/RI to connect to devices



LED indicator for identifying power status selected by jumper (Red:12V/Yellow:5V/Green: RI) Indicator sparkle in yellow:

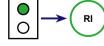
RS-232 with 5V power setting

Indicator sparkle in read:

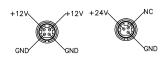
RS-232 with 12V power setting

Indicator sparkle in Green:

RS-232 with Ring Indicator setting









Extra 24V power Connector for peripheral power requirement





Cash drawer port via RJ-12 with 12 V/24 V power

Equipped with a digital I/O RJ-12 12 V/24 V port that provides extension for peripherals such as a cash drawer device.



| | | Assignment |
|-----|----------|--------------------------------------|
| | 1 | Ground |
| | 2 | CASH_1 (Digital Out Programmable) |
| | 3 | Digital IN |
| | 4 | +12 V / +24 V (Jumper Selection) |
| 1 6 | 5 | NC |
| | 6 | Ground |



Cash Drawer Control



Sell-developille



Easy Access to HDD and CF

Easy access storage drive bay design for quick, trouble-free storage installation









Easy HDD and CF Card Installation

Specifications



AFL-315AB-945 AFL-317AB-945 (Black)



AFL-315AW-945 AFL-317AW-945 (White)

| LCD Size | 15" | 17" | Brightness (cd/m²) | 350 or 250 | 300 | |
|------------------------|---|------------------|----------------------------|---|--|--|
| Max Resolution | 1024 x 768 1280 x 1024 | | SSD | CF Type II | | |
| Contrast Ratio | 700:1 or 600:1 800:1 | | Watchdog Timer | Software Programmable supports 1~255 sec. System rese | | |
| | 262K or 16.7M | 16.7M | Audio | AMP 1.5W+AMP 1.5W (| Built-in Stereo Speakers) | |
| LCD Color | | | Camera | 2 Mega pixel with Autofocus | 300K pixel with Digital Microphone | |
| Pixel Pitch (mm) | 0.297(H) x 0.297(V) | | | 1 x PCIe mini card | | |
| Viewing Angle (H-V) | 140° / 125° or 160° / 160° | 160° / 160° | Expansion | 1 x Mini PCI Interface (Wirele | 1 x Mini PCI Interface (Wireless LAN 802.11 a/b/g Module) | |
| Backlight MTBF | 50,000 hrs (4 | 10,000 hrs) | | 1 x Bluetooth module (USB interface, Bluetooth V2.0) | | |
| SPC Model | SBC Model AFLMB-9454 | | HDD Drive Bay | 1 x 3.5" SATA HDD bay o | or 1 x 2.5" SATA HDD bay | |
| SBC Model | | | ODD Drive Bay | N/A | 1 x slim type ODD bay | |
| CPU | Intel® Dual Core Desktop Processor(E2160) 1.8GHz or others | | Construction Material | ABS + PC Plastic front frame | | |
| Chipset | Intel® 945G | | Mounting | Panel, Wall, Stand and Arm (VESA 100mm x 100mm) | | |
| Memory | DDR2 1GB support up to 4GB | | Front Panel Color | Black or White | | |
| | | | Dimension (WxHxD) (mm) | 363 x 322 x 80 | 400 x 380 x 107 | |
| | 4 40//04/1501 | | Operation Temperature (°C) | 0°C~45°C | | |
| | 1 x 12V/24V DC Inp 1 x PS/2 | out Jack | Storate Temperature (°C) | -20°C~80°C | | |
| | 3 x RS-232 COM po 1 x RS-232/422/48 | | Net Weight | 10.2 kg | 13.4 kg | |
| | 1 x RJ-12, 12V/24V | Cash Drawer Port | IP Level (front panel) | IP 64 | | |
| I/O Ports and Switches | 1 x RJ-45 for GbE I 8 x USB 2.0 | LAN | EMC | CE, FCC, CCC | | |
| NO FORES UNIC OWITCHES | 1 x Power Switch | | Safety | UL, CB | | |
| | 1 x Reset Button 1 x DVI port 1 x VGA port 1 x Line in, 1 x Line out, 1 x MIC in 1 x 24V DC Output Jack | | Touch Screen | Resistive Type 5-Wire (touch controller IC is on board) o Capacitive type touch screen without CF slot | | |
| | | | Power Adapter | ACE-D825AH: 252W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC at 15A, 24VDC at 3A | | |
| | | | Power Consumption | 102 W | 127 w | |

Automati

2

Digital Signage

Video Wall Controller

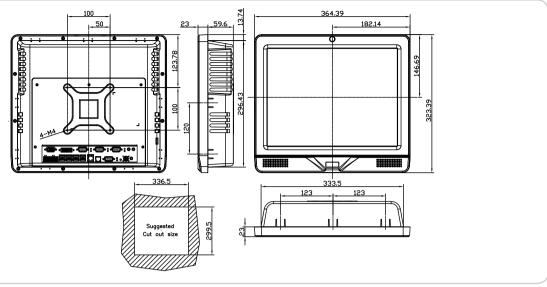
SISCased plutions

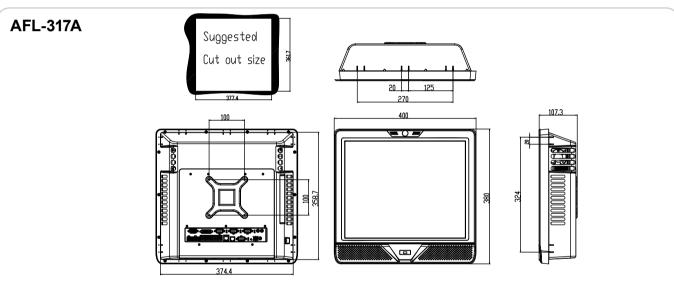
ACSmate ledical

Optional Peripheral

Dimensions (Unit: mm)

AFL-315A





Ordering Information

| AFL-315AB-945-E2160/WT-R/1GB-R11 | 15" 350cd/m² XGA panel PC w/ Dual-Core E2160 1.8GHz CPU,1GB DDR2 RAM,802.11 b/g wireless module,touch screen, 2MP Camera,Bluetooth,black color,R11,RoHS |
|-----------------------------------|--|
| AFL-315ABE-945-E2160/WT-R/1GB-R11 | 15" 250cd/m² XGA panel PC with Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM,802.11 b/g wireless module, touch screen, 2MP Camera, Blutooth, black color |
| AFL-315AW-945-E2160/WT-R/1GB-R11 | 15" 350cd/m² XGA panel PC w/ Dual-Core E2160 1.8GHz CPU,1GB DDR2 RAM,802.11 b/g wireless module,touch screen, 2MP Camera,Bluetooth,white color,R11,RoHS |
| AFL-315AWE-945-E2160/WT-R/1GB-R11 | 15" 250cd/m² XGA panel PC with Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM,802.11 b/g wireless module, touch screen, 2MP Camera, Blutooth, black colo |
| AFL-317AB-945-E2160/WT-R/1GB-R10 | 17" 300cd/m² SXGA panel PC w/ Dual-Core E2160 1.8GHz CPU,1GB DDR2 RAM, 802.11 a/b/g wireless module,touch screen, 300K pixel Camera with microphone, Bluetooth,black color |
| AFL-317AW-945-E2160/WT-R/1GB-R10 | 17" 300cd/m² SXGA panel PC w/ Dual-Core E2160 1.8GHz CPU,1GB DDR2 RAM, 802.11 a/b/g wireless module,touch screen, 300K pixel Camera with microphone, Bluetooth,white color |

Note: Optional 1.3MP Camera with Digital Microphone Module

Options

| Options | Model name |
|-----------------|-----------------------|
| Panel mount kit | AFLPK-315 / AFLPK-317 |
| Wall mount kit | AFLWK-19 |
| Stand | STAND-210-R11 |
| Statiu | STAND-A26 |
| ARM | ARM-11-RS/ARM-31-RS |

Packing List

| 1 x Power Cable | |
|-----------------|--|
| 1 x Utility CD | |
| 1 x Screw Kit | |
| 1 x Touch Pen | |
| 1 x 252 W PSU | |

Retail Solutions

12.1" 1D/2D Barcode Scanner AFOLUX Panel PC

12.1" Fanless AFOLUX Panel PC with built-in 1D and 2D Barcode scan engine allowing customers/employees to access instant item information

IEI One Key Recovery solution allows you to create rapid OS backup and recovery



50°/37.5° (H/V) Wide Scanning Area





երբիրիրոստութրին













Modularized 1D/2D Barcode Scanner

1D/2D Code Reading

• Accurately decodes all 1D and 2D codes, even wrinkled, damaged or poorly printed

• 1.3 mega-pixel CMOS sensor captures high resolution images for decoding

• 50°/37.5° (H/V) large scanning area





| 123456789 |
|-----------|
| |

Technology 1D Code Read Condition 20 to 25 characters

2D Code 100 to about 2,000 characters



Efficient Scanning Performance

- 50°/37.5° (H/V) wide scanning area reads twice the area of typical scanner
- Area-scanning features non-direction reading drive scanning performance
- 25mm-310mm scanning distance







Quick Install



Single 12V DC power Input for complete system.

Input: 90VAC~264VAC, 50/60Hz Output: 12VDC



Easy Deployment with VESA Mount

Price Checking / Promotion PPC

- Check price, obtain product related information
- Easy connections to USB devices, such as thermal printer and card reader
- Customer can access their loyalty card to see their accumulated credit and reward
- In DVD rental store, customers can watch movie preview by scanning DVD barcode

Image

Webpage

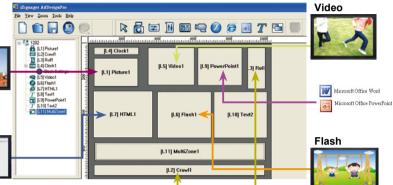
• Play multimedia video to attract attention of customers and make shopping more



X86 based Digital Signager

With the IEI content design software, your can easily create multi-zone display contents..

- Multiple media zone display
- Multiple media format support, including flash, picture, video, html, text/ photo banner, and audio
- Support multi format content display in one media block
- Content preview function



A. Desktop Stand









Photo Banners / Text

Banner

VESA 75mm / 75mm

C. VESA Standard Multi-mounting Stand



VESA 75/100 Compliant with Height Adjustable

VESA 75mm / 100mm

VSTAND-A12



- 0° to 90° adjustable hinge design allows comfortable viewing
- Standard VESA 75/100 Compliance
- · Heat dissipation holes designed
- Compact size easy to use and mount anywhere
- 0° to 90° adjustable hinge design
- B Designed holes help to dissipate the system heat

Easily Mount On the Walls with **Adjustable Hinge**





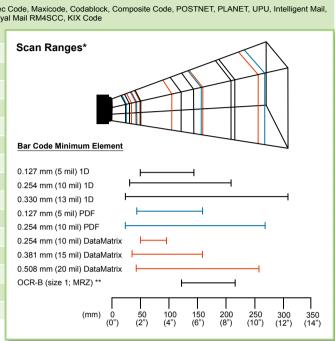




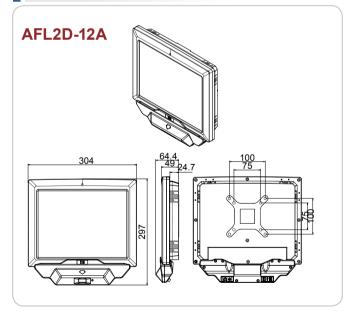
Easily Mount On the Ceiling

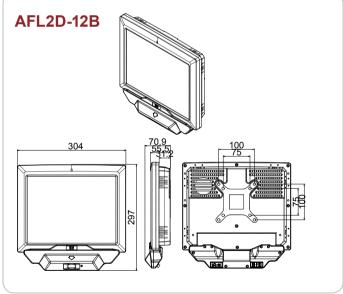
Scanner Specifications

| Model N | lame | AFL2D-12-R11 | | |
|----------------------------|----------------------------|---|---|--|
| | Image sensor | CMOS, 1.3 mega pixel | | |
| | Decode Capability | 1D: Code 39, Code 93, Code 128, UPC/EAN/JAN, Code 2 of 5, Code 11, Codabar, MSI Plessey, GS1 DataBar, Telepen, Triop PDF: PDF417, MicroPDF417 2D: QR Code, Micro QR Code, Data Matrix, Aztec Code, Maxicode, Codablock, Composite Code, POSTNET, PLANET, UPU, Canada Post, Australia Post, Japanese Post, Royal Mail RM4SCC, KIX Code *OCR: OCR-A, OCR-B, E-13B MICR *Note: Enable by purchasing decoding license | | |
| | Depth of Field* | 25 mm – 310 mm, (1 - 12.2") for 100% UPC | Scan Ranges* | |
| Barcode | Minimum Element Width, 1D* | 0.102 mm (4 mil) | | |
| Scanner | Minimum Element Width, 2D* | 0.191 mm (7.5 mil), Data Matrix | | |
| | Resolution | 1280 x 960 pixels | | |
| | Print Contrast | 20% minimum reflectance difference | | |
| | Scan Pattern | Area | Bar Code Minimum Element | |
| | Focal Point | 100 mm (3.94") from the imager face | 0.127 mm (5 mil) 1D | |
| | View Angles | 50°(horizontal), 37.5°(vertical) | 0.254 mm (10 mil) 1D | |
| I/O Borto | and Switches | 2 x USB Ports | 0.330 mm (13 mil) 1D | |
| I/O Ports a | and Switches | 1 x Power Jack | 0.127 mm (5 mil) PDF 0.254 mm (10 mil) PDF | |
| Construction Material | | ABS + PC Plastic | 0.254 mm (10 mil) DataMatrix | |
| Dimension (WxHxD) (mm) | | 267.5 x 71.5 x 48.5 | 0.381 mm (15 mil) DataMatrix | |
| Operation Temperature (°C) | | 0°C ~40°C | 0.508 mm (20 mil) DataMatrix OCR-B (size 1; MRZ) ** | |
| Storage Temperature (°C) | | -20°C ~70°C | OCIN-D (SIZE 1, IVIIXZ) | |
| Net Weight | | 0.2 Kg | | |
| | | | (0°) (2°) (4°) (6°) (8°) (10°) (11°) | |



Dimensions (Unit: mm)





Ordering Information

| Number | Description |
|---|--|
| AFL2D-12A-LX/WT-R/256MB/**(HSUPA01)-R20 | 12.1" 500 cd/m², XGA fanless panel PC with AMD LX-800 CPU, AT/ATX mode, 802.11b/g Wireless Module, Bluetooth Module, Touch screen and 256MB DDR RAM, 2D Barcode Scanner, R20, RoHS |
| AFL2D-12A-LX/WT-R/512MB/**(HSUPA01)-R20 | 12.1" 500 cd/m², XGA fanless panel PC with AMD LX-800 CPU, AT/ATX mode, 802.11b/g Wireless Module, Bluetooth Module, Touch screen and 512MB DDR RAM, 2D Barcode Scanner, R20, RoHS |
| AFL2D-12BS-LXPOS/WT-R/256MB-R20 | 12.1" 450 cd/m² SVGA fanless PPC with AMD Geode LX 800 CPU, 256MB DDR RAM, 802.11 b/g wireless module and touch screen, without STAND, 2D Barcode Scanner, R20, RoHS |
| AFL2D-12BX-LXPOS/WT-R/256MB-R20 | 12.1" 500 cd/m² XGA fanless PPC with AMD Geode LX 800 CPU, 256MB DDR RAM, 802.11 b/g wireless module and touch screen, without STAND, 2D Barcode Scanner, R20, RoHS |
| AFL2D-12A-N270/WT-R/1GB/**(HSUPA01)-R20 | 12.1" 500 cd/m², XGA fanless panel PC with Intel® Atom™ N270 1.6GHz,802.11b/g wireless module, bluetooth module, touch screen, 1GB DDR2 533, 2D Barcode Scanner, R20, RoHS |

Mifare Reader

Module

Retail Solutions

IMK-571R MiniKiosk

Features

- RMI Alchemy MAE multimedia platform with 5.7" VGA touch panel and stereo speaker
- Support PoE (Power Over Ethernet) agile deployment
- Wide-angle, illumination 1D/2D barcode engine
- Wired/unwired network connectivity support
- Default 2GB MiniSD for data storage

















Interact with your customer

IEI R MiniKiosk is a space-saving device specially designed for slim front-end information access and customer interaction in your retail environment which is suitable for various applications. Now, no extra service and waiting is needed, customers can check the price, obtain product information through multimedia and even get a realtime promotion message by themselves through a simply scan of product barcode or convenient touch panel interface. This can greatly assist you to reduce unnecessary service effort, draw potential sales opportunity and maximize customer satisfaction and profit



On-site information access

In addition to customer service, IMK-571R can also improve operation efficiency by enabling on-site employee easy access and update necessary product and inventory



Powerful hardware design in compact size

With compact size, PoE (Power-Over-Ethernet) power supply function and low thermal design, IMK-571R is the most cost-effective solution with easy deployment and maintenance for your IT staffs. Empowered by RMI Alchemy Au1250 microprocessor with MAE (Multimedia Acceleration Engine), IMK-571R achieves great performance in its versatile multimedia support including most available video and audio types (MPEG1/2/4, DivX and WMV9).



Easy data and program management

To support possibly volume of product data and video content, IMK-571R offers a default 2GB large capacity miniSD storage space and a variety of connectivity. You can manage your data, multimedia content and applications via embedded LAN, WLAN or RS-232 connection or even miniSD card.



Software development support

IMK-571R software development kit (SDK) includes most useful functions and makes software development easier and faster than ever. It includes comprehensive demonstration source code and document for most web application develop environment.



Maximize customer satisfaction and ROI

IMK-571R is not only a multimedia self-service device but means a brand new connection between you and your customers. Now you can talk to your customers, interact with them and even collect their behavior information just in this simple machine without spending extra on-the-spot service effort. IMK-571R provides customers a new, delightful shopping experience and improves their satisfaction and loyalty, and maximizes your business profit and ROI.

Applications



Self-service

 Allow customer to check price. obtain product related information or even motivate them by providing promotion message



Customer Loyalty program

 Customer can access their loyalty card to see their accumulated credit and reward

Advertising

- Play multimedia video to attract attention of customers and make shopping more interesting
- In DVD rental store, customers can watch movie preview by scanning DVD barcode



Production Line information

• Operator can scan barcode on WIP carrier to get production information and update the production status



1-54

IMK Runtime Demo



IMK Runtime Demo:

IMK Runtime Demo is a pre-installed application which helps user quick experience functions of IMK-571R

Product Inquiry:

In this mode, user can scan pre-defined product barcode and display relative product information, user can check barcode type here as well

Receipt Print:

Use Print button to print a receipt which is queried at product inquiry mode

Access Control:

Access control allows users to read magnetic card and display pre-defined personal information

Receipt Print

IMK Merchandise Manager



IMK Merchandise Manager provides a friendly interface for administrator to maintain and manage product information on IMK-571R in the network

Find IMK-571R in your network

Use Find IMK-571R to search and list all available IMK-571R in the network. The select IMK-571R which want to upload or download product information file.

Upload/Download Product information File

When execute download command, IMK Merchandise will grab product information file from selected IMK-571R at previous step and generate local sub folders with different device names. Oppositely, when execute upload, IMK Merchandise will transfer product information file in sub folders named by the device name onto relative IMK-571R

Edit Product InformationFile

User can select and open product information file (*.xml) to edit. In editing mode, user can add, remove product items or edit product details and save the change after the editing is done. Then use 'Apply to all' to generate sub folders named by selected IMK-571R device names and imitate product information file with the edited content into the folders



IMK Web Configurator

IMK Web Configurator is a Web-based utility which allows users to access IMK-571R and modify the settings via web browser interface anytime, anywhere without any PC client application installed. It makes management of IMK-571R in the network very easy and convenient for IT administrator and minimize time and cost for system maintenance.

- System Setting: User can inquire system information and set up Ethernet and Wireless parameters
 in system setting Remote restart option allows users to restart the system once any abnormal
 circumstance occurs and a restart procedure is needed
- Barcode Setting: User can adjust universal barcode parameters and variable of various barcode types in barcode settings page, the available setting items in the page will auto change when a specific barcode type at left side is selected. User can also use 'Factory default' function to recover all settings to default when needed



Lutomational designations

2

ouch POS

Digital signage

Video Wall Controller

> 5 ISCased

ACSmate Medical

Optional

Barcode Capability

IMK-571R equips with leading scanner engine Metrologic IS4920. IS4920 is a decoded miniature area imaging scan engine designed to scan 1D and 2D bar codes. It features a mega pixel imaging sensor, a wide angle lens design, integrated illumination and aiming, and industrial leading decoding software and delivers a fast and aggressive scanning performance

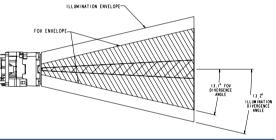
| Features | Benefits |
|--|---|
| Powered by Adaptus® Imaging Technology | Adaptus Imaging Technology delivers leading technologies and embodies Honeywell continuous commitment to providing superior data capture solutions |
| Point-and-Shoot Scanning Ease of Use: | Available in high visibility LED and laser aimer versions makes reading linear and full matrix codes quick and easy with industry-leading motion tolerance, low light sensitivity, and broad depth of reading Distances |
| Durable | Incorporate industrial grade image sensor technology and are designed with no moving parts, these imagers can withstand rugged applications |
| Decoding | Read all major linear, stacked linear, and matrix bar codes, as well as machine-readable OCR fonts, quickly and Easily |
| Fifth Generation Image Processing | Industry-leading image processing performance. In addition to reading bar codes well, these products also capture crisp digital images. |



| Barcode Reading Angles | | | | | | | |
|---|------|------|--|--|--|--|--|
| Pitch | Skew | Tilt | | | | | |
| 40° @ 0° tilt and 0° skew 40° @ 0° tilt and 0° pitch 360° @ 0° pitch and 10° ske | | | | | | | |
| PS: The scanner may not operate under conditions of specular reflection: +/- 5° assuming Pitch & Skew @ 0° tilt only) | | | | | | | |

AIMING LINE ENVELOPE FOV ENVELOPE AMORE TO STATE THE STATE OF THE ST

..1") 0.7") 75") 9")



Window Size Diagram (Laser Aimer)

| Bar Code Element Width | | Depth of Field(In the Field of View) | | | |
|------------------------|------------------------|--------------------------------------|--------------------------|------------------------|----------------|
| Dai Coue Elei | Dai Gode Element Width | | Start (From Engine Face) | End (From Engine Face) | Total |
| | .203 mm | 8 mil | 89 mm (3.5") | 193 mm (7.6") | 104 mm (3.1") |
| 1D(Code 39) .254 mm | | 10 mil | 81 mm (3.2") | 234 mm (9.2") | 153 mm (6") |
| | .381 mm | 15 mil | 53 mm (2.1") | 325 mm (12.8") | 272 mm (10.7") |
| DDE447 | .168 mm | 6.6 mil | 114 mm (4.5") | 159 mm (6.25") | 45 mm (1.75") |
| PDF417 | .254 mm | 10 mil | 79 mm (3.1") | 229 mm (9.0") | 150 mm (5.9") |
| Data Matrix | .381 mm | 15 mil | 58 mm (2.3") | 259 mm (10.2") | 201 mm (7.9") |

IMK-571R in a glance



Automation Panel Solutions

All-in-One Touch POS

Digital Signage

> Video Wall Controller

RISCbased Solutions

ACSmate Medical

Optional Peripherals

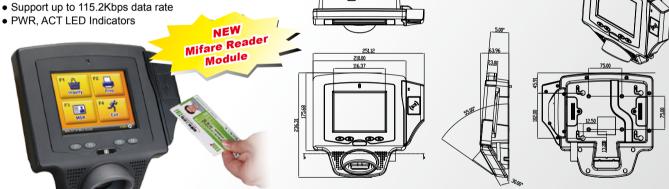


IMK-571R-CE5/MIFARE/-R10

RFID Reader Feature

• ISO14443A (MIFARE) UID (Read Only) and block date Read/Write

• Reading Distance: 3-5cm (Card dependent)



IMK-571R-CE5/MSR/-R10

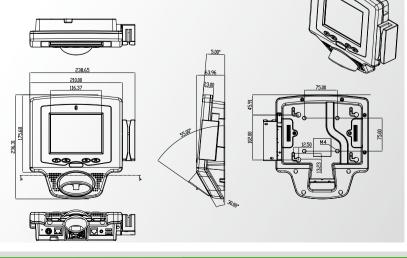
Magnetic Card Reader Feature

• Reading Track: ISO1,2,3 (IATA, ABA, THRIFT, MINTS)

• Card Standard : ANSI, ISO, ABA

· Beeper Reading Indicator





Dimensions (Unit: mm)

Automation Panel Solutions

All-in-One Touch POS

3 Digital Signage

Video Wall Controller

RISCpased Solutions

6 PACSmat

Optional Periphera

| 238.65 210.00 116.37 | 55.00° 63.96 23.00 30.00. | 75.00 75.00 12.50 M4 |
|----------------------------|------------------------------------|--|
| | 39.00 39.00 83.2 78.00 | 90.00 mm Scan Line 10.50 6.25 00.997 Cable S.R |

Specifications

| Model | IMK-571R MiniKiosk | | 10/100Mbps Ethernet with onboard POE design Built-in WiFi 802.11 b/g | |
|------------------------|--|----------------|--|---|
| 0 | RMI Alchemy AU1250 500MHz CPU 2MB NOR Flash for bootloader 256MB DDR2 | Connectivity | RS-232 x 1 USB host Rev. 2.0 x 2 Stereo Audio Jack x 1 Stereo Speaker x 2 | |
| Core System | miniSD slot with default 2GB miniSD memory card for OS and user data/program Watch Dog Timer 5.7" VGA TFT Touch panel LCD with LED backlight Resistive Type 4-Wire Touch Screen | data/program S | | Operation Temperature : 0°C-50°C Humidity : 5%-90% RH |
| | | Power | 1 x 12-24V DC Power Input 8W Power Consumption | |
| Display | | os | Windows® CE 5.0 Built-in web server Built-in RDC (Remote Desktop Connection) Thin Client support | |
| | • Power LED | | SDK for eMbedded Visual C++ | |
| Data input and display | Function keys x 4 1D/2D barcode scanner Reset button x 1 MSR (IMK-571R-CE5/MSR-R10 Only) | Utility | IMK Web Configurator IMK Remote Management Tool IMK Merchandise Manager | |
| | | Demo | IMK Runtime Demo Application | |

Ordering Information

| Part Number | Description |
|--------------------------|---|
| IMK-571R-CE5/-R10 | RISC-BASED MINI KIOSK PANEL PC, ALCHEMY AU1250 CPU, 5.7" TFT TOUCH PANEL, HONEYWELL IT5180 1D/2D BARCODE SCANNER, WIFI B/G, ON BOARD POE, W/O MAGNETIC STRIPE READER, WINCE5.0, RoHS |
| IMK-571R-CE5/MSR/-R10 | RISC-BASED MINI KIOSK PANEL PC, ALCHEMY AU1250 CPU, 5.7" TFT TOUCH PANEL, HONEYWELL IT5180 1D/2D BARCODE SCANNER, WIFI B/G, ON BOARD POE, W/ MAGNETIC STRIPE READER, WINCE5.0, RoHS |
| IMK-571R-CE5/MIFARE/-R10 | RISC-BASED MINI KIOSK PANEL PC, ALCHEMY AU1250 CPU, 5.7" TFT TOUCH PANEL, HONEYWELL IT5180 1D/2D BARCODE SCANNER, MIFARE 13.56MHz RFID READER, WIFI B/G, ON BOARD POE, W/O MAGNETIC STRIPE READER, WINCE5.0, RoHS |
| 7Z000-MIFARES50-RS | RFID PROXIMITY, CARD, 13.56MHZ, ISO14443A; MIFARE-S50; SIZE:85.6X 54X 0.76MM, PVC SURFACE; RoHS |
| AFLWK-12 | VESA 75 wall mount kit |

Packing List

| 1 x IMK-571R | 1 x Utility CD includes SDK, utilities, and technical document |
|------------------------|--|
| 1 x 9-pin RS-232 cable | 1 x Touch pen |
| 1 x Screw kit | |

In-Wall Mount Solutions

AFOLUX_4 Series

The fanless AFL-4xxx series with streamlined design based on the Intel® Atom $^{\rm TM}$ processor is designed in flexible options to match your diverse style.

Fanless

An on-board 1.6GHz Intel® Atom™ N270 CPU ensures low power requiements. Metal casting design housing replaces the fan as it helps the dissipate heat.

 Changeable Faceplate/Sticker Skin Multiple faceplate/skin sticker available to match diverse decoration styles

• Easy In-wall in minutes

In-wall mounting just three simple steps: cut-out the panel , screw on and put on the faceplate

- VESA Mounting Compliant
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery



Features

- 8" ~ 15" TFT LCD with resistive touch screen.
- Fanless system with Intel® Atom™ process N270 1.6GHz CPU
- Changeable faceplate and sticker skin
- In-wall mechanism design allows easy to installation in minutes
- Build-in CMOS camera with digital microphone and two 1.5W speakers for multimedia applications
- Enabling easier access to the internet through a HSUPA network (Optional)
- Buit-in bluetooth technology rids systems of cables and allows wireless connection to peripheral devices like head phones, keyboard and mouse
- VESA-mountable for flexibility in mounting and deployment
- Ambient light sensor detects ambient light for automated screen adjustments to optimize viewing.
- IP63 front panel compliant
- One Digital I/O (4 input/ 4 output)
- Windows XP Embedded/Windows CE/Linux (Debian 2.6.26)
 Support

Fanless Wireless 802.11 b/g Bluetooth Speakers Microphone 3.75G HSUPA IP 64

Ambient Light Sensor



AFL-4xxx series built in the ambient light sensor in front of the panel to automatically detect the amount of light in the viewing environment and auto-adjusts the brightness of the screen.

Benefits

- Avoid eye strained and tried, to provide comfortable viewing
- Power consumption saving
- Extend lamp lifetime





Automation Panel Solutions

2

3 Digital Signage

Video Wall Controller

> SISCased colutions

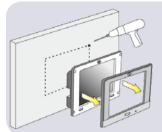
PACSmate Medical

Optional Periphera

Easy In-wall Installation in Minutes

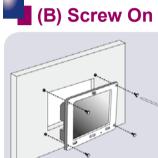
AFL-4xxx series was not only increases flexibility of versatile patterns of the faceplate, but also ease of installation.

(A) Cut Out the Panel



Select the position on the panel to mount the flat panel PC. Cut out a section from the panel that corresponds to the rear panel dimensions.

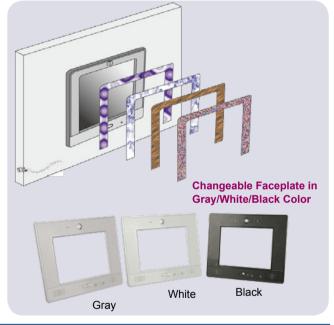
(D) Changeable faceplate sticker skin (Customize by order)



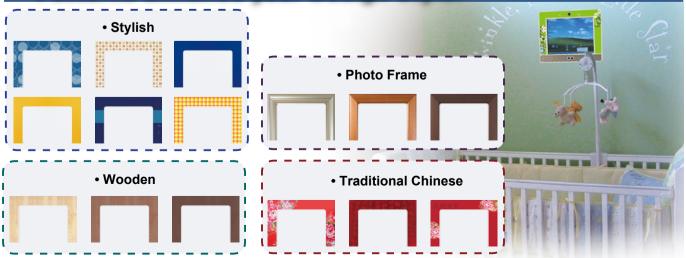
Tighten the screws that pass through the panel mounting holes until the screws are firmly secured to the panel.

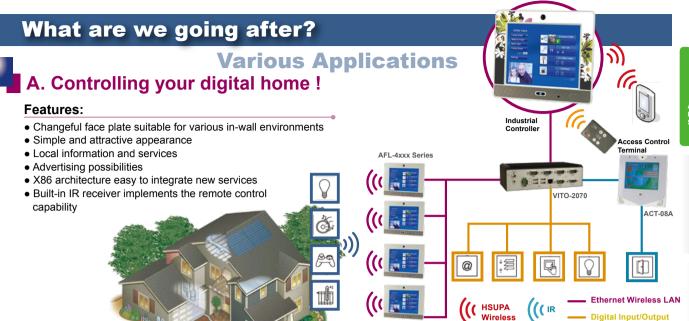
(C) Put on the Faceplate





Versatile Faceplate Sticker Skin Patterns Enhance your Design Style!









Telephone annoucement and music from one room can follow you down the hall and into the kitchen.



Control the lighting, in the event of alarm or fire.

View and record surveillance



Lighting Control Lighting set by schedule, time of



Energy Management

• Lights turn off when leaving the home Settings restore automatically

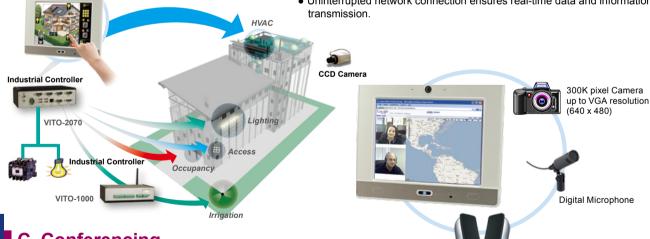
when returning home, saving

B. Building Automation

Features:

• Rich I/O interface for easy peripheral integration in any location.

• Uninterrupted network connection ensures real-time data and information



C. Conferencing

Features:

- Trouble-free video conferencing with integrated audio/video hardware and wireless connection.
- Equipped with a digital I/O with to remotely control the device on and off.





Two 1.5W Speakers

IEI Quick Mounting Technology

• In-wall Mounting



Self-drilling screws 1.Diameter:M4 2.Length: >15mm

Wall Mount



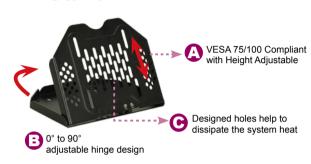
Desktop Stand



Easy Stand



-Stand



Comfortable **Stand**



Portrait/Landscape





Right/Left Pan (270°)

Forward & Back Tilt(+25°/-5°)

Height Adjustment(13 cm)



(For 8"~10.4" AFL Series)

Features:

- 0° to 90° adjustable hinge design allows comfortable viewing
- Standard VESA 75/100 Compliance
- · Heat dissipation holes designed
- · Compact size easy to use and mount anywhere



The Benefits

One fits all solution

V-Stand is designed to be compact and tilt adjustable. Provides mobility and ergonomic comfort to fit common wall and ceiling mounting situations.



Back office POS system

Ceiling Mounting



Car PC



POS system

Space saving and easy to install

1: Tighten the screws in the rear of the AFOLUX PPC VESA mounting holes

> Compact size provides mobility





0° to 90° adjustability Change the angle of the stand from 0° to 90° to reach almost any point with ergonomic features for comfortable viewing.



2: Select the position to mount stand kit



3: Plug in the system to operate

ne Key Recovery

symantec.

Economical

Version

10~28VDC

AFL-408A-N270

AFL-408B-N270

AFL-W410A-N270

8.4" SVGA Fanless In-Wall Panel PC

8.0" SVGA Fanless In-Wall Panel PC

Wide 10.2" SVGA Fanless In-Wall Panel PC



Specifications

Power Requirement
Power Consumption

Features

- 8" ~ 15" TFT LCD with resistive touch screen.
- Fanless system with Intel® Atom™ process N270 1.6GHz CPU
- Changeable faceplate and sticker skin
- In-wall mechanism design allows easy to installation in minutes
- Build-in CMOS camera with digital microphone and two 1.5W speakers for multimedia applications (Optional)
- Enabling easier access to the internet through a HSUPA network (Optional)
- Buit-in bluetooth technology rids systems of cables and allows wireless connection to peripheral devices like head phones, keyboard and mouse
- VESA-mountable for flexibility in mounting and deployment
- Ambient light sensor detects ambient light for automated screen adjustments to optimize viewing.
- One Digital I/O (4 input/4 output) (Optional)
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)



| | | | version | version | | | | |
|------------------------|------------------------------------|---|--|---|--|--|--|--|
| | Model | AFL-408A-N270-R20 | AFL-408B-N270-R20 | AFL-W410A-N270-R20 | | | | |
| | LCD Size | 8.4" | 8.0" | 10.2" | | | | |
| | Max Resolution | 800 * 600 | 800 * 600 | 1024 * 600 | | | | |
| | Brightness (cd/m²) | 450 | 250 | 400 | | | | |
| n: 1 | Contrast Ratio | 600 : 1 | 500 : 1 | 400 : 1 | | | | |
| Display | LCD Color | 262K | 262K | 262K | | | | |
| | Pixel Pitch (mm) | 0.213(H) x 0.213(V) | 0.2025(H) x 0.2025(V) | 0.2175(H) x 0.2175(V) | | | | |
| | Viewing Angle (H-V) | 160° / 140° | 140° / 130° | 140° / 110° | | | | |
| | Backlight MTBF (hrs) | 50000 | 30000 | 40000 | | | | |
| | CPU | Intel® Atom™ process N270 1.6GHz CPU | Intel® Atom™ process N270 1.6GHz CPU | Intel® Atom™ process N270 1.6GHz CPU | | | | |
| Motherboard | Chipset | Intel® 945GSE + ICH7M | Intel® 945GSE + ICH7M | Intel® 945GSE + ICH7M | | | | |
| | RAM | Sur | oports one 400MHz or 533MHz DDRII SO-DIMM (2GB Ma | ax.) | | | | |
| I/O Ports and Switches | | 1 x RJ-45 for RS-232 COM Port 1 x RJ-45 for RS-232/422/485 COM port 1 x RJ-45 for Giga LAN 5 x USB 2.0 (4 in the rear, 1 in front panel) 2 x Power Switch (Inside Fornt Panel & Rear cover) 1 x Reset Button 1 x DIO (4in / 4out) 1 x Terminal block for 10~28VDC Input 1 x VGA Port 1 x Power Jack | 1 x RJ-45 for RS-232 COM Port 1 x RJ-45 for RS-232/422/485 COM port 1 x RJ-45 for Giga LAN 5 x USB 2.0 (4 in the rear, 1 in front panel) 2 x Power Switch (Inside Fornt Panel & Rear cover) 1 x Reset Button 1 x Terminal block for 10~28VDC Input 1 x VGA Port 1 x Power Jack | 1 x RJ-45 for RS-232 COM Port 1 x RJ-45 for RS-232/422/485 COM port 1 x RJ-45 for Giga LAN 5 x USB 2.0 (4 in the rear, 1 in front panel) 2 x Power Switch (Inside Fornt Panel & Rear cover) 1 x Reset Button 1 x DIO (4in / 4out) 1 x Terminal block for 10~28VDC Input 1 x VGA Port 1 x Power Jack | | | | |
| | SSD | CF TypeII | CF TypeII | CF TypeII | | | | |
| Driver Bay | HSUPA Mobile Solution(Optional) | N/A | N/A | 1 x HSUPA Mobile Module (USB Interface) | | | | |
| | Watchdog Timer | Software programmable supports 1∼255 sec. System reset | | | | | | |
| | Audio | AMP 1.5W + 1.5W (Internal Speaker) | | | | | | |
| | WiFi | 1 x Wireless Lan 802.11 b/g Module (internal Mini PCle interface) | | | | | | |
| Other Function | Bluetooth | 1 x Bluetooth Function (internal USB interface, Bluetooth V2.0) | N/A | N/A | | | | |
| | Webcam and Digital Microphone | 1 x 300K pixel Camera with Digital Microphone (internal USB interface) | N/A | N/A | | | | |
| | Remote Control | 1 x Remote | Controller (LCD On/Off; System Power On/Off; Volume; | Brightness) | | | | |
| | LED Function | 1 x Power ON/OFF LED on Front Panel | | | | | | |
| | Construction Material | | ABS + PC Plastic front frame | | | | | |
| | LED Function | | 1 x Power ON/OFF LED on Front Panel | | | | | |
| | Mounting | | Panel, Wall VESA 75mm x 75mm / 100mm x 100mm | | | | | |
| Physical | Front Panel Color | Black (Black U) / White (Apple white) Gray (422C) | Black (Black U) / White (Apple white) Gray (422C) | Black (Black U) / White (Apple white) Gray (422C) | | | | |
| | Dimension (WxHxD) (mm) | 263.2 x 221.2 x 54.4 | 263.2 x 221.2 x 54.4 | 313.83 x 222.13 x 52.5 | | | | |
| | Operation Temperature (°C) | -10°C ~50°C | -10°C ~50°C -10°C ~50°C | | | | | |
| | Storage Temperature (°C) | -20°C ~60°C | -20°C ~60°C | -20°C ~60°C | | | | |
| Environment | Net Weight | 0.8 Kg | 0.8 Kg | 1.5 Kg | | | | |
| | IP Level | IP63 | IP63 | IP63 | | | | |
| | EMC | CE, FCC, CCC | CE, FCC, CCC | CE, FCC, CCC | | | | |
| | Safety | СВ | СВ | СВ | | | | |
| Touch Screen | | Resistive Type 4-Wire (Touch controller IC is on board) | Resistive Type 5-Wire (Touch controller IC is on board) | Resistive Type 5-Wire (Touch controller IC is on boa | | | | |
| Power Adapter | | | 3608-RS / 36W Power Adapter / Input: 90VAC~264VAC, 5 | | | | | |
| | | 10.00/00 | 10.00/70 | | | | | |

10~28VDC

10~28VDC

25W

1

All-in-One

3 Digital Signage

Video Wall Controller

RISCbased Solution

PACSmat Medical

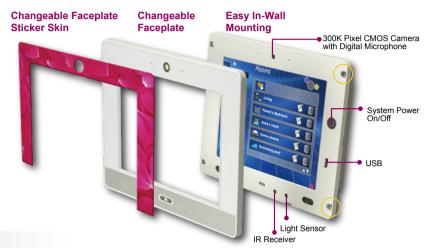
Optional Peripherals

AFL-412A-N270 AFL-415A-N270 AFL-415AE-N270

12.1" XGA Fanless In-Wall Panel PC

15" XGA Fanless In-Wall Panel PC

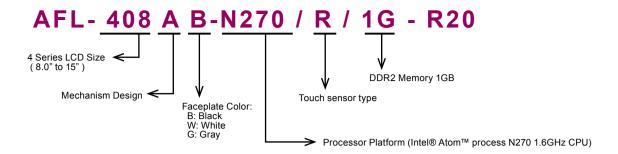
15" XGA Economical Fanless In-Wall Panel PC



Specifications

| | Model | AFL-412A-N270-R20 | AFL-415A-N270-R20 | AFL-415AE-N270-R20 | | | | |
|------------------------|-------------------------------------|--|---|---|--|--|--|--|
| | LCD Size | 12.1" | 15" | 15 | | | | |
| | Max Resolution | 1024 * 768 | 1024 x 768 | 1024 x 768 | | | | |
| | Brightness (cd/m²) | 500 | 350 | 250 | | | | |
| Namles: | Contrast Ratio | 700 : 1 | 700 : 1 | 600 : 1 | | | | |
| Display | LCD Color | 262K | 262K | 16.2M | | | | |
| | Pixel Pitch (mm) | 0.3075(H) x 0.3075(V) | 0.297(H) x 0.297(V) | 0.297(H) x 0.297(V) | | | | |
| | Viewing Angle (H-V) | 160° / 160° | 140° / 125° | 160° / 160° | | | | |
| | Backlight MTBF (hrs) | 50000 | 50000 | 40000 | | | | |
| | CPU | Intel® Atom™ process N270 1.6GHz CPU | Intel® Atom™ process N270 1.6GHz CPU | Intel® Atom™ process N270 1.6GHz CPU | | | | |
| Motherboard | Chipset | Intel® 945GSE + ICH7M | Intel® 945GSE + ICH7M | Intel® 945GSE + ICH7M | | | | |
| | RAM | Supr | ports one 400MHz or 533MHz DDRII SO-DIMM (2GB Ma | ax.) | | | | |
| I/O Ports and Switches | | 1 x RJ.45 for RS-232 COM Port 1 x RJ.45 for RS-232/422/485 COM port 1 x RJ.45 for Giga LAN 5 x USB 2.0 (4 in the rear, 1 in front panel) 2 x Power Switch (Inside Fornt Panel & Rear cover) 1 x Reset Button 1 x DIO (4 in / 4out) 1 x Terminal block for 10~28VDC Input 1 x VGA Port 1 x Power Jack | 1 x RJ-45 for RS-232 COM Port 1 x RJ-45 for RS-232422485 COM port 1 x RJ-45 for Giga LAN 5 x USB 2.0 (4 in the rear, 1 in front panel) 2 x Power Switch (Inside Fornt Panel & Rear cover) 1 x Reset Button 1 x DIO (4in / 4out) 1 x Terminal block for 10~28VDC Input 1 x VGA Port 1 x Power Jack | 1 x RJ-45 for RS-232 COM Port 1 x RJ-45 for RS-232/422/485 COM port 1 x RJ-45 for Giga LAN 5 x USB 2.0 (4 in the rear, 1 in front panel) 2 x Power Switch (Inside Fornt Panel & Rear cove 1 x Reset Button 1 x DIO (4in / 4out) 1 x Terminal block for 10~28VDC Input 1 x VGA Port 1 x Power Jack | | | | |
| | HDD Drive Bay | 1 x 2.5 SATA HDD bay or Option HSUPA Module | 1 x 2.5 SATA HDD bay or Option HSUPA Module | 1 x 2.5 SATA HDD bay or Option HSUPA Modul | | | | |
| Driver Bay | SSD | CF Typell | CF Typell | CF Typell | | | | |
| | HSUPA Mobile Solution (Optional) | 1 x HSUPA Mobile Module (USB Interface) | 1 x HSUPA Mobile Module (USB Interface) | 1 x HSUPA Mobile Module (USB Interface) | | | | |
| | Watchdog Timer | Software programmable supports 1~255 sec. System reset | | | | | | |
| | Audio | AMP 1.5W + 1.5W (internal speaker) AMP 3W + 3W (internal speaker) AMP 3W + 3W (internal speaker) | | | | | | |
| | WiFi | 1 x Wireless Lan 802.11 b/g/n Module (internal Mini PCle interface) | | | | | | |
| Other | Bluetooth | 1 x E | Bluetooth Function (internal USB interface, Bluetooth V2 | .0) | | | | |
| unction | Webcam and Digital Microphone | 1 x 300K pixel Camera with Digital Microphone (internal USB interface) | | | | | | |
| | Remote Control | 1 x Remote Controller (LCD On/Off; System Power On/Off; Volume; Brightness) | | | | | | |
| | LED Function | 1 x Power ON/OFF LED on Front Panel | 1 x Power ON/OFF LED on Front Panel | 1 x Power ON/OFF LED on Front Panel | | | | |
| | Construction Material | ABS + PC Plastic front frame | ABS + PC Plastic front frame | ABS + PC Plastic front frame | | | | |
| | LED Function | 1 x Power ON/OFF LED on Front Panel | 1 x Power ON/OFF LED on Front Panel | 1 x Power ON/OFF LED on Front Panel | | | | |
| Physical | Mounting | | Panel, Wall VESA 75mm x 75mm / 100mm x 100mm | | | | | |
| , | Front Panel Color | | Black (Black U) / White (Apple white) / Gray (422C) | | | | | |
| | Dimension (WxHxD) (mm) | 339 x 276 x 51.6 | 385.7 x 330.7 x 55.5 | 385.7 x 330.7 x 55.5 | | | | |
| | Operation Temperature (°C) | 0°C ~40°C with 2.5 | SATA HDD / -10°C ~50°C with CF Card or SATA interfa | ace 2.5 SSD HDD | | | | |
| | Storage Temperature (°C) | -20°C ~60°C | -20°C ~60°C | -20°C ~60°C | | | | |
| Environment | ` ' | 1.8 Kg | | | | | | |
| | IP Level | IP63 | IP63 | IP63 | | | | |
| | EMC | CE, FCC, CCC | CE. FCC. CCC | CE, FCC, CCC | | | | |
| | Safety | CB | CB | CB | | | | |
| Touch Screen | • | 35 | 55 | | | | | |
| Power Adapte | er | P/N: 63000-FSP050DBAB1405-RS 50W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC | P/N: 63000-FSP060DBAB1553-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC | P/N: 63000-FSP060DBAB1553-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC | | | | |
| Power Requir | rement | 10~28VDC | 10~28VDC | 10~28VDC | | | | |
| | umption | 32W | 49W | 49W | | | | |

AFL-4xxx In-wall PPC Product Line Naming Rule



Ordering Information

| Model | | Description | | | |
|-------|--------------------------|--|--|--|--|
| | AFL-408BB-N270/R/1G-R20 | 8.0" 250 cd/m², 800x600 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Touch screen and 10-28VDC Wide Range, Black color, R20, RoHS | | | |
| 8" | AFL-408BW-N270/R/1G-R20 | 8.0" 250 cd/m², 800x600 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Touch screen and 10-28VDC Wide Range, White Color, R20, RoHS | | | |
| | AFL-408BG-N270/R/1G-R20 | 8.0" 250 cd/m², 800x600 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Touch screen and 10-28VDC Wide Range, Gray Color, R11, RoHS | | | |
| | AFL-408AB-N270/R/1G-R20 | 8.4" 450 cd/m², 800x600 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Black color, R20, RoHS | | | |
| 8.4" | AFL-408AW-N270/R/1G-R20 | 8.4" 450 cd/m², 800x600 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, White Color, R20, RoHS | | | |
| | AFL-408AG-N270/R/1G-R20 | 8.4" 450 cd/m², 800x600 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Gray Color, R20, RoHS | | | |
| | AFL-W410AB-N270/R/1G-R20 | 10.2" 400 cd/m², 1024x600 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Touch screen and 10-28VDC Wide Range, Black color, R20, RoHS | | | |
| 10.2" | AFL-W410AW-N270/R/1G-R20 | 10.2" 400 cd/m², 1024x600 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Touch screen and 10-28VDC Wide Range, White Color, R20, RoHS | | | |
| | AFL-W410AG-N270/R/1G-R20 | 10.2" 400 cd/m², 1024x600 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM AT/ATX mode, 802.11b/g Wireless, Touch screen and 10-28VDC Wide Range, Gray Color, R20, RoHS | | | |
| | AFL-412AB-N270/R/1G-R20 | 12.1" 500 cd/m², 1024x768 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Black color, R20, RoHS | | | |
| 12.1" | AFL-412AW-N270/R/1G-R20 | 12.1" 500 cd/m², 1024x768 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, White color, R20, RoHS | | | |
| | AFL-412AG-N270/R/1G-R20 | 12.1" 500 cd/m², 1024x768 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Gray color, R20, RoHS | | | |
| | AFL-415AB-N270/R/1G-R20 | 15" 350 cd/m², 1024x768 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Black color, R20, RoHS | | | |
| 15" | AFL-415AW-N270/R/1G-R20 | 15" 350 cd/m², 1024x768 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, White color, R20, RoHS | | | |
| | AFL-415AG-N270/R/1G-R20 | 15" 350 cd/m², 1024x768 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Gray color, R20, RoHS | | | |
| | AFL-415AEB-N270/R/1G-R20 | 15" 250 cd/m², 1024x768 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Black color, R11, RoHS | | | |
| 15" | AFL-415AEW-N270/R/1G-R20 | 15" 250 cd/m², 1024x768 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, White color, R11, RoHS | | | |
| | AFL-415AEG-N270/R/1G-R20 | 15" 250 cd/m², 1024x768 fanless In-Wall panel PC with Intel® Atom™ N270 1.6G CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g Wireless, Bluetooth, 300K Pixel Camera W/Microphone, Touch screen and 10-28VDC Wide Range, Gray color, R20, RoHS | | | |

Automation Panel Solutions

2

3

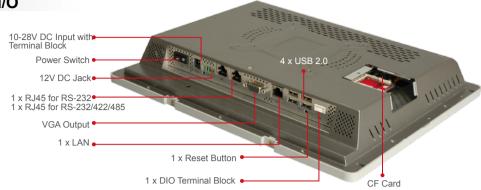
deo Wall ontroller

> Ced utions

ACSmate edical

Optional

Fully Integrated I/O



ISMM Support Functions

| | Voltage | Fan | Smart Fan | Temprature | DIO | WDT | Beep | Cash Drawer |
|----------------|---------|-----|-----------|------------|-----|-----|------|-------------|
| AFL-408A-N270 | V | | | V | V | V | V | V |
| AFL-408B-N270 | | | | | | | | |
| AFL-W410A-N270 | V | | | V | V | V | V | V |
| AFL-412A-N270 | V | | | V | V | V | V | V |
| AFL-415A-N270 | V | | | V | V | V | V | V |
| AFL-415AE-N270 | | | | | | | | |

Options

| Mode | el | AFL-408A-N270 | AFL-408B-N270 | AFL-W410A-N270 | AFL-412A-N270 | AFL-415A-N270 | AFL-415AE-N270 | |
|-------|---|---------------------------|-------------------|-----------------------------|----------------------------|--|----------------|--|
| Wall | Wall mounting kit AFLWK-12 | | | | | AFLWK-19 | | |
| ARM | | | | ARM-11-RS | ARM-31-RS | | | |
| Stan | d | STAND-A08 / S | STAND-100-RS | STAND-A12 / S | STAND-100-RS | STAND-A19, STAND-B19, STAND-210-R11 STAND-A19, STAND-B19, STAND-210-R11 | | |
| VSTA | AND | | VSTAND-A10 | | VSTAND-A12 | N/A | N/A | |
| | VDC to 12VDC erter module | - IDD-930160-ΚΙΤ N/Δ | | | | N/A | | |
| | OS: Win CE 5.0 (128 MB CF card) | AFLCF-408A- | N270-CE-R10 | AFLCF-W410-N270-CE | AFLCF-412-N270-CE | AFLCF-415-N | 1270-CE-R10 | |
| | OS: Win CE 6.0 (128 MB CF card) | AFLCF-408A-N270-CE060-R10 | | AFLCF-W410-N270- CE060 | AFLCF-412-N270-CE060 | AFLCF-415A-N270-CE060-R10 | | |
| os | OS: Win XPE (1 GB CF card) | AFLCF-408A-N | N270-XPE-R10 | AFLCF-W410-N270-XPE | AFLCF-412-N270-XPE | AFLCF-415A-N270-XPE-R10 | | |
| | OS: Linux (2 GB CF card) | AFLCF-408A-1 | N270-LNX-R10 | AFLCF-W410-N270- LNX-R10 | AFLCF-412-N270- LNX-R10 | AFLCF-415A-N | N270-LNX-R10 | |
| DC 1 | 2V Input UPS | | AUPS-A | A10-R10 | | AUPS-E | 10-R10 | |
| DC 9 | ~36V Input UPS | | AUPS-A | A20-R10 | | AUPS-B20-R10 | | |
| Face | Faceplate (Black Color) AFLFP-408A-B-R10 AFLFP-408B-B-R10 | | AFLFP-W410A-B-R10 | AFLFP-412A-B-R10 | AFLFP-415A-B-R10 | | | |
| Face | plate (White Color) | AFLFP-408A-W-R10 | AFLFP-408B-W-R10 | AFLFP-W410A-W-R10 | AFLFP-412A-W-R10 | AFLFP-41 | 5A-W-R10 | |
| Face | plate (Gray Color) | AFLFP-408A-G-R10 | AFLFP-408B-G-R10 | AFLFP-W410A-G-R10 | AFLFP-412A-G-R10 | AFLFP-41 | 5A-G-R10 | |
| In-Wa | all Cage (Options) | AFLIWC-408-R10 | AFLIWC-408-R10 | AFLIWC-W410-R10 | AFLIWC-412-R10 | AFLIWC-415-R10 | AFLIWC-415-R10 | |

Note: Win CE application without digital microphone function

Packing List

| Item | P/N | Q'ty | Specifications |
|-------------------------|---|------|--------------------------------------|
| Screws | 44233-030081-RS | 4 | M3; φ8mm |
| Power Adapter | 63000-FSP036RAB608-RS 63000-FSP050DBAB1405-RS 63000-FSP060DBAB1553-RS | 1 | 90 ~ 264V 12v; 36W / 50W / 60W |
| Power Cable | 32000-000002-RS | 1 | 1750mm, European Standard |
| User's Manual CD ROM | 7B000-000087-RS | 1 | |
| Touch Pen | XTR104-0002-RS | 1 | |
| Remote Control Unit | 72000-8T00320ICP05G-RS | 1 | |

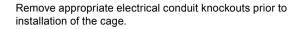
Removable Faceplate:



In-Wall Cage

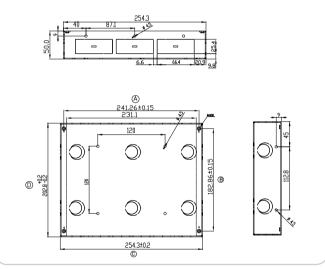


Electrical Knockouts of Wall Cage

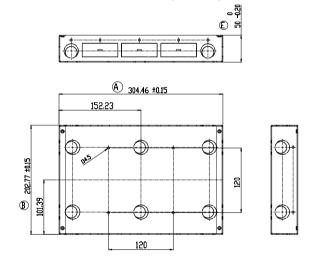




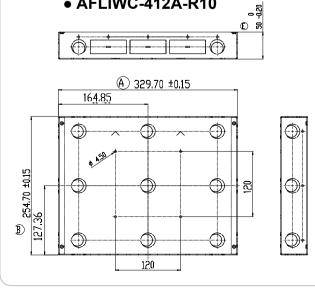
• AFLIWC-408A/B-R10



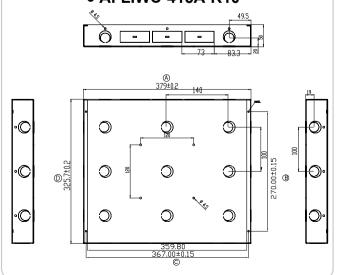
• AFLIWC-W410A-R10



• AFLIWC-412A-R10



• AFLIWC-415A-R10

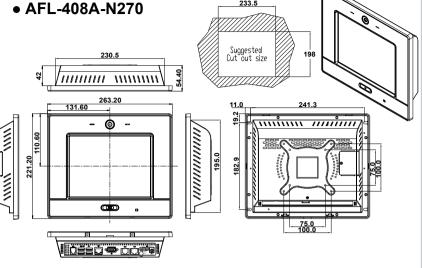


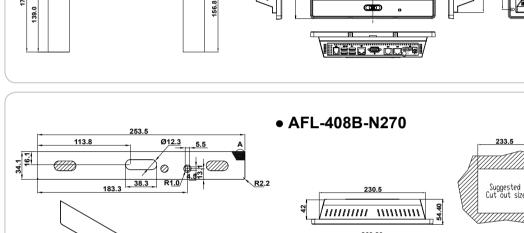
Dimensions (Unit: mm)

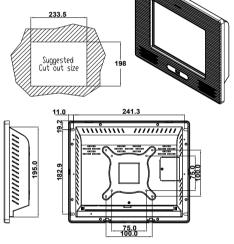
184.4 126.8

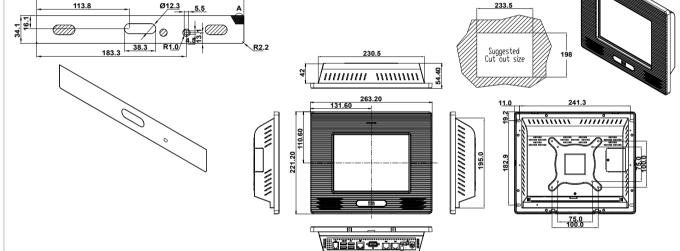
<u>Ø19.</u>9

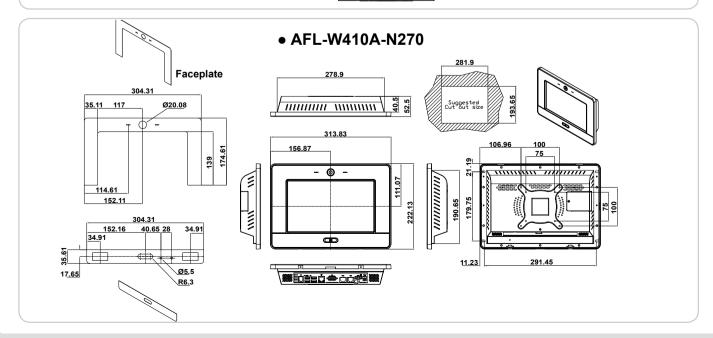
• AFL-408A-N270











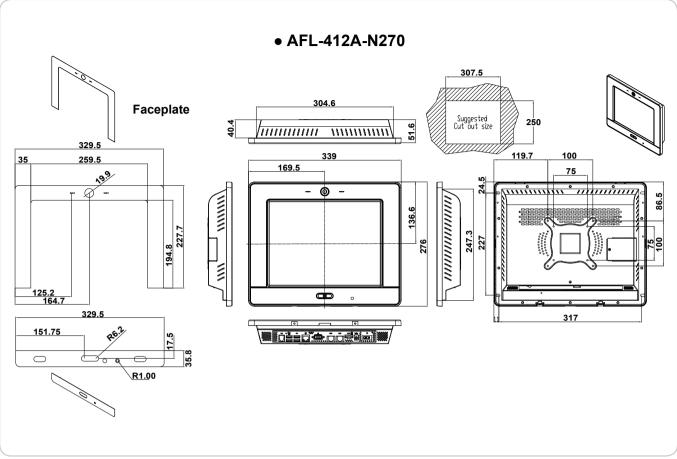
dideo Wall controller

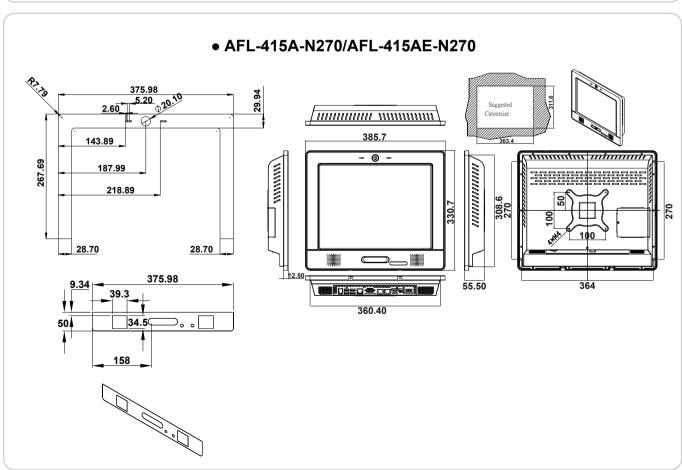
SCsed lutions

ACSmate ledical

Optional Periphera

Dimensions (Unit: mm)





Fanless Dual Core Solutions

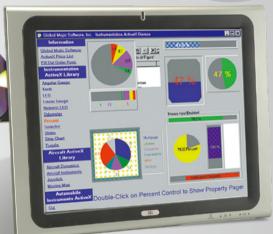
AFOLUX_5 Series

Features

- 17" TFT LCD with Intel® GM45 chipset and 45nm mobile Core™2
 Duo processor support
- High performance fanless design with optical drive
- Built-in 802.11 b/g/n Wireless LAN connection
- Built-in Bluetooth module
- Built-in HDMI and Display Port for digital dual display option.
- Built-in HSUPA module for mobile connection
- One compact flash slot for embedded applications.
- IP 64 compliant front panel with touch screen function.
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery







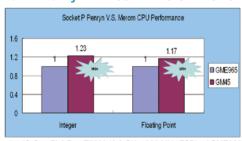
Fanless

AFL-517A-GM45

Mobile Power Grade Fanless Panel PC

Fanless Dual Core Performance up to 2.53 GHz

45nm Penryn VS 65nm Merom Performance



- Intel® Core $^{\text{TM}}$ 2 Duo T7500 (2.2 GHz, 800 MHz FSB) w/ GME965 Chipset and 667 MHz DDR2
- Chipset and of MH2 DDR2

 Intel® Core™ 2 Duo processor (Penryn) (2.53 GHz, 1066MHz FSB)

 w/ GM45 Chipset and 667 MHz DDR2

architecture bring the necessary power to address performance-hungry applications like imaging and gaming powered by Intel® Core™ 2 Duo processors and the Intel® GM45 chipset.

Dual-core computing



Good aerodynamicsUnique heat sink design for AFL-517A mechanism allows air to easily flow rapidly through the cooler and reach all the cooling fins.

Applications:



Medical Image Terminal

Industrial Automatic

Network Securit

Transportation

Interactive Kid

Digital Signage

ge

Gam

1-70

8

Mobile Intel® GM45 Solution

Performance Leadership

- Penryn on 45nm process
- Large L2 Cache and Faster FSB (6M, 1066MHz)
- Introduces DDRII Support (800/1067)
- Enhanced Graphics Engine (Gen 5)

Increased Integration

- Support for High Definition decode in H/W
- Integrated DisplayPort & HDMI/HDCP
- Integrated TPM and Packet Filtering

Unmatched Efficiency

- Deep Power Down Technology (w/ C6 state)
- Thermal compatibility with Santa Rosa
- Smaller Form Factor



KIOSK



New Platform Solution

| Generation | Pentiu | ım® M | Core™ | Duo / Solo | Core™ | ¹2 Duo | | | | |
|--------------|--------------------|-------------------|------------------|------------------------------|----------------------------|-------------------|--|-------------------|--|--------------------|
| Process | 130 nm | 90 nm | 65 nm | | | 45 nm | | | | |
| FSB | 400 MHz | 533 MHz / 400 MHz | 677 MH: | 677 MHz / 533 MHz | | 677 MHz / 533 MHz | | 677 MHz / 533 MHz | | 1066 MHz / 800 MHz |
| Architecture | Banias Socket 479 | Dothan Socket 479 | Dothan Socket M | Merom Napa Refresh Socket M | Merom Santa Rosa Socket P | Penryn Socket P | | | | |
| TDP | 24.5 W | 21 W | 31 W | 34 W | 35 W | 35 W | | | | |
| Platform | 852GM / 855GM | 915GME | 945GME | | GME965 | GME45 | | | | |

IEI Penryn Solution

- Panel PC / AFL-517A / 519A
- COM Express / ICE-GM45A



Half Size PICOe-GM45A



epic NANO / NANO-GM45A

Automation Panel Solutions

2

ouch POS

ligital ignage

Video Wall Controller

> ISCased olutions

PACSmate Medical

Optional Peripherals



Mobile Power Grade Fanless Panel PC

• Mobile Chipset Transition

| | Year2006 | Year2007 | Year2008~9 |
|-------------------------|---------------------------|---------------------------|---------------------------|
| Chipset Code Name | Mobile Intel®945GME/ICH7M | Mobile Intel®GME965/ICH8M | Mobile Intel®GM45/ICH9M |
| TDP | 7W Max | 9.5~13.5W | 9~12W |
| Process | 90nm | 90nm | 65nm |
| FSB | 533/667MHz | 667/800MHz | 800/1066MHz |
| System Memory | 4G Max | 4G Max | 8G Max |
| iAMT | Intel® AMT 1.0 | Intel® AMT 2.5 | Intel® AMT 4.0 |
| Integrated Graphic Core | 3.5th Generation | 4th Generation | 5th Generation |
| New Display Interface | - | - | Display Port HDMI/HDCP |
| Microsoft DirectX | DirectX 9.0 | DirectX 9.0 | DirectX 10.0 |
| OpenGL Support | OpenGL 1.4 | OpenGL 1.5 | OpenGL 2 |









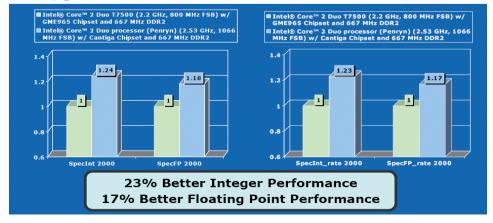
| Format | Decoding Stage | GME965 | GM45 |
|---|-------------------------------------|--------|------|
| MPEG2 | HW Motion Comp | V | V |
| (DVD) | Inverse DC Transform | V | V |
| (DVD) | Variable Length Decode | V | V |
| VO 4 | HW Motion Comp + In Loop Deblocking | V | V |
| VC-1 (WMV9) | Inverse Transform | | V |
| (* * * * * * * * * * * * * * * * * * * | Variable Length Decode | | V |
| AVC | HW Motion Comp + In Loop Deblocking | V | V |
| (H.264) | Inverse Transform | | V |
| (HD DVD) | Variable Length Decode | | V |
| | | | |



• Mobile Intel® GM45 Processor

| Mobile CPU Transition | Year2006 | Year2007 | Year2008~9 |
|--------------------------|---|--|---|
| Platform | Merom-Napa Reflash Intel® Core™2 Duo Intel® Core™2 Duo LV Intel® Celeron®M | Merom-Santa Rosa Intel® Core™2 Duo Intel® Core™2 Duo LV Intel® Celeron®M | Penryn-Montevina Intel® Core™2 Duo Intel® Core™2 Duo LV Intel® Core™2 Duo ULV Intel® Celeron®M Intel® Celeron®M ULV |
| Process | 65nm | 65nm | 45nm |
| Cache | 2MB, 4MB | 2MB, 4MB | Up to 6MB |
| FSB | 667MHz | 800MHz | 1066MHz |
| DDR | DDR2 533/667 | DDR2 667/800 | DDR2 667/800 |
| Package | Mobile Socket-M, 35mm | Mobile Socket-M, 35mm Mobile Socket-P, 35mm | Mobile Socket-P, 35mm |
| TDP | 34W Standard Voltage 17W Low Voltage 9W Ultra Low Voltage | 35W Standard Voltage 17W Low Voltage | 35W Standard Voltage 15W Low Voltage5. 5W Ultra-Low Voltage Single Core |

• Performance Upgrades



1-72

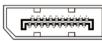
New HDMI / DisplayPort Choice



HDMI



DisplayPort



DisplayPort is a digital display interface standard put forth by the Video Electronics Standards Association (VESA). It defines a new license-free, royalty-free, digital audio/video interconnect, intended to be used primarily between a computer and its display monitor. or a computer and a home theater system.



DisplayPort on projector



DisplayPort to DVI









The AFL 5 series features high speed WiFi 802.11 b/q/n protocol which builds on previous 802.11 standards by adding multiple-input multiple-output (MIMO) and 40 MHz operation to the physical (PHY) layer. MIMO uses multiple transmitter and receiver antennas to improve performance. The 40 MHz operation uses wider bands, compared to 20 MHz bands in previous 802. protocols operation, to support higher data rates. Wider bandwidth channels are cost effective and easily accomplished with moderate increases in digital signal processing.

• DisplayPort connector comparison

| | 802.11a | 802.11b | 802.11g | 802.11n |
|---------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Data Rate (Mbps) | 54 | 11 | 54 | 540 |
| Range (Radius Indoor) | 35 Meters | 38 Meters | 38 Meters | 70 Meters |
| Range (Radius Outdoor) | 120 Meters | 140 Meters | 140 Meters | 250 Meters |
| Radio Frequency | 5.15 GHz to 5.85 GHz | 2.4 GHz to 2.5 GHz | 2.4 GHz to 2.5 GHz | 2.4 GHz or 5.0 GHz |





27 times faster data transfer rate compare 802.11b

Saving cable & installation fees

802.11 b/g/n ready with invisible antenna



Applications:

• DisplayPort on monitor

Medical

17" SXGA Fanless Dual Core Panel PC

AFL-517A-GM45

Intel® Core™2 Duo T9400 2.53GHz Processor (max.)



Features

- 17" TFT LCD with Intel® GM45 chipset and 45nm mobile Core™
 2 Duo processor support
- High performance fanless design with optical drive
- Built-in 802.11 b/g/n Wireless LAN connection
- Built-in Bluetooth module
- Built-in HDMI and Display Port for digital dual display option.
- Built-in HSUPA module for mobile connection
- One compact flash slot for embedded applications.
- IP 64 compliant front panel with touch screen function.
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)

Specifications

| Model | | AFL-517A-GM45-R10 | | Watchdog Timer | Software programmable supports 1~255 sec. System reset |
|-----------------|-------------------------|--|---|---------------------------|---|
| | LCD Size | 17" | | Audio | AMP 3W + AMP 3W |
| | Max Resolution | 1280 x 1024 | Other | 714410 | 1 x Wireless Lan Module (Mini PCIe Interface, 802.11 |
| Contra | Brightness (cd/m²) | 300 | Features | Extension | b/g /n LAN Module) |
| | Contrast Ratio | 800 : 1 | | | 1 x Bluetooth Module (USB Interface, Bluetooth V2.0) |
| Display | LCD Color | 16.7M | | Membrane Keypad | OSD Keypad below the Front Panel |
| | Pixel Pitch (mm) | 0.264(H) x 0.264(V) | | LED Function | 1 x Power ON/OFF LED on Front Panel |
| | Viewing Angle (H-V) | 160° / 160° | | Construction Material | ABS + PC Plastic front frame |
| | Backlight MTBF (hrs) | 50000 | | | Panel, Wall, Rack, Stand and Arm |
| | CPU | Intel® Core™2 Duo T9400 2.53GHz Processor (max.) | Physical | Mounting | (VESA 100mm x 100mm) |
| | Chipset | Intel® GM45 Chipset + ICH9M | | Front Panel Color | Sliver (877U) & Gray (ABSA2037) |
| Motherboard RAM | | Supports two 2.0GB 667MHz or 800MHz DDR2 SO- DIMM (System max. 4.0GB) | | Dimension (WxHxD) (mm) | 428 x 350 x 79 |
| | | Zimin (eyetem maxi neez) | | Operation | 0°C ~40°C With HDD |
| | | 1 x RS-232 COM Port 1 x RS-232/422/485 COM port | | Temperature (°C) | 0°C ~45°C with CF card or SATA interface 2.5" SSD HDD |
| | | 2 x Giga LAN 4 x USB 2.0 | Environment Storage Temperature (°C) Net Weight | | -20°C ~60°C |
| I/O Ports | | 1 x Power Switch 1 x Reset Button | | Net Weight | 7.5 Kg |
| | | 1 x VGA port | | IP Level | IP64 |
| | | 1 x Audio port | | EMC | CE, FCC, CCC |
| | | 1 x HDMI port | Safety | | СВ |
| | | 1 x Display port | Touch Screen | | Resistive Type 5-Wire (Touch controller IC is on board) |
| | SSD | CF TypeII | | | Power: 150W |
| | HDD | 1 x 2.5" SATA HDD bay | Power Adapter | | Input: 90VAC~264VAC, 50/60Hz |
| Drive Bay | CD-ROM | 1 x Slim Type CD-ROM bay | | | Output: 12VDC |
| | HSUPA Mobile | 1 v HSLIDA Mobile Medule (LISB Interface) | Power Require | ement | 12VDC |
| | Solution (Optional) | 1 x HSUPA Mobile Module (USB Interface) | Power Consu | mption | 108W |

CDRW-DVD Combo Drive Specifications

The drive is able to write CD-R/RW discs and also can perform as a regular DVD-ROM drive.

| Drive Type | Internal Slim CD-RW/DVD Combo Drive | | | |
|--------------------|---|--|--|--|
| Data Transfer Rate | Write: CD-R: 24X / CD-RW: 24X Read: DVD-ROM: 8X / CD-ROM: 24X | | | |
| Interface | SATA | | | |
| Buffer Memory | 2МВ | | | |



Automation Panel Solutions

All-in-One Touch POS

3 Digital Signage

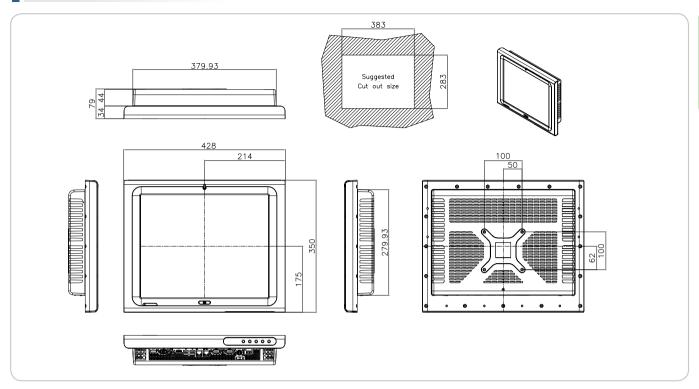
Video Wall Controller

RISCbased Solutions

ACSmate Medical

Optional Peripherals

Dimensions (Unit: mm)



Ordering Information

| Model | Description |
|--|--|
| AFL-517A-GM45-T9400/WT-R/OD/2GB/ **(HU01)-R10 | 17" 300cd/m² SXGA panel PC with Intel® Core™2 Duo 2.53GHz CPU,2GB DDR2 RAM,802.11 b/g/n WiFi,touch screen,Bluetooth, DVD-COMBO, RoHS |
| AFL-517A-GM45-P8400/WT-R/OD/2GB/ **(HU01)-R10 | 17" 300cd/m² SXGA panel PC with Intel® Core™2 Duo 2.26GHz CPU,2GB DDR2 RAM,802.11 b/g/n WiFi,touch screen,Bluetooth, DVD-COMBO, RoHS |
| AFL-517A-GM45-CM575/WT-R/OD/1GB/ **(HU01)-R10 | 17" 300cd/m² SXGA panel PC with Intel® Celeron® M 2.0GHz CPU,1GB DDR2 RAM,802.11 b/g/n WiFi,touch screen,Bluetooth, DVD-COMBO, RoHS |

ISMM Support Functions

| | Voltage | Fan | Smart Fan | Temprature | DIO | WDT | Веер | Cash Drawer |
|-------------------|---------|-----|-----------|------------|-----|-----|------|----------------|
| AFL-517A-GM45-R10 | V | V | V | V | | V | V | |

Options

| Option | ns | Model name |
|------------------------|--------------------------------|--|
| Panel | mount kit | AFLPK-517A |
| Wall mount kit | | AFLWK-19 |
| ARM | | ARM-11-RS / ARM-31-RS |
| Stand | | STAND-A19 / STAND-B19 STAND-210-R11 |
| | WIN CE 5.0 (128 MB CF card) | N/A |
| os | WIN CE 6.0 (128 MB CF card) | N/A |
| | WIN XPE (1 GB CF card) | AFLCF-517A-GM45-XPE-R10 |
| Hybrid Card Reader | | AFLP-17AMSI-U |
| Magnetic Stripe Reader | | AFLP-17AMSR-U |
| DC 12 | V Input UPS | AUPS-B10-R10 |
| DC 9~ | 36V Input UPS | AUPS-B20-R10 |

Packing List

| Item | P/N | Q'ty | Specifications |
|-------------------------|-----------------------------|------|---------------------------------|
| Screws | 44233-030081-RS | 4 | M3; φ8mm |
| Power Adapter | 63000-FSP150AHAN1808- RS | 1 | 90 ~ 264V 12v; 96W |
| Power Cable | 32000-000002-RS | 1 | 1750mm, European Standard |
| User's Manual CD ROM | 7B000-000087-RS | 1 | |
| Touch Pen | XTR104-0002-RS | 1 | |

Automation Panel Solutions

2

All-in-One Touch POS

> ligital lignage

ideo Wall ontroller

SCsed olutions

6 ACSmate edical

Optional

Large Screen Solutions

AFOLUX_6 Series

AFL-642AE-GM45



Features

- WiFi 802.11b/g/n connection
- · Built-in two speakers
- · Built-in Bluetooth technology rids systems of cables and allows wireless connection to peripheral devices like headphones, printers, barcode readers or game controllers
- · The Ambient Light Sensor helps conserve energy
- VESA-mountable for flexibility in mounting and deployment
- · SAW touch screen with durable glass construction is perfect for healthcare, retail and hospitability applications (Optional)
- 42" tempered glass with AR(anti-reflection) coating (Optional)
- Ease of use OSD control below the front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)







eSolution Innovator, Embedded Your Life



展演工業電影













AFOLUX tempered glass series use 4 layer hard coating to reduce the sunlight reflected from the surface of the panel, increases contrast ratio and image readability even when used in outdoors.



Conventional



With AR Coating

· Reduced intensity of reflected light

- No image distortion
- Higher contrast
- Wider viewing angles
- · Colors are more vibrant

| | Conventional Monitor | AR Coatin Tempered Glass Models |
|--------------|-------------------------|------------------------------------|
| Transmission | 90% | 96±3% Win! |
| Reflection | 9% | Less than 3% Win |

Behavior of Light Reflected by LCD Screen

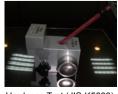




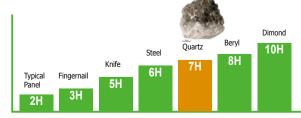
7H Stronger Protection

(For Tempered Glass Protection Models)

The IEI AFOLUX tempered glass monitor's strictly tested 7H hardness is stronger than the conventional panel and therefore is able to protect the screen from damage. It offers protection in a wide variety of applications.



Hardness Test (JIS-K5600)



MOH's Hardness Rating



Solid SAW Touch Panel

| Touch Screen Technology | | | | | | | |
|-------------------------------|------------------------|--|--|--|--|--|--|
| | Resistive | Surface Capacitive | SAW | | | | |
| Sensing method | Hand or stylus | Hand | Hand or Gloved Hand | | | | |
| Sensing Medium | ITO film or glass | ITO glass | Glass | | | | |
| Transmittance degree | 80%~90% | 90% above | 92% above WIN! | | | | |
| Touch accuracy | Good | Normal | Excellent WIN! | | | | |
| # of touches in lifetime (mn) | 35 | 200 | 100 | | | | |
| Strength | Waterproof, dirt-proof | Fireproof, dirt-proof, not easily scratches, Long life | Fireproof, high reliability, not easily scratches, Long life | | | | |
| Weakness | Easily scratched | Easily affected by EMI | - | | | | |



Durable SAW touch screen made of pure glass construction

Wireless Connection



Some of the current and emerging applications that are driving the need for 802.11n are Voice over IP (VoIP), streaming video and music, gaming, and network attached storage.

| | 802.11b | 802.11g | 802.11n | | | | |
|------------------------|--------------------|------------------------------|------------------|--|--|--|--|
| Data Rate (Mbps) | 11 | 54 | 540 | | | | |
| Range (Radius Indoor) | 38 Meters | 38 Meters | 70 Meters | | | | |
| Range (Radius Outdoor) | 140 Meters | 140 Meters 140 Meters 250 Me | | | | | |
| Radio Frequency | 2.4 GHz to 2.5 GHz | 2.4 GHz to 2.5 GHz | 2.4 GHz or 5 GHz | | | | |

Video On Demand (VOD)



802.11a

Access to email, instant image and the Internet

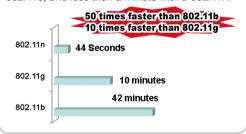


Streaming music Streaming video



VoIP /Gaming /NAS

Compares the time it would take to transfer a 30-minute video file. At the best data transfer rate, it would take 42 minutes to copy the file using 802.11b, and less than a minute with a 802.11n.



Bluetooth®

Do wires still inconvenience you when you try to connect peripherals to your system? The Bluetooth module integrated into the AFOLUX all-in-one panel PC transmits information between peripheral devices through a complete Bluetooth network.

Push Marketing



AFOLUX PPC being used as an advertising unit to send the promotion content via Bluetooth technology







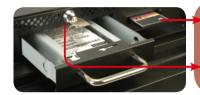




Audience receives content and music via Bluetooth technology



User-Friendly Interface



User-accessible CF

CF slot on the bottom panel, making installing and replacing CF cards easy

 Lockable HDD Drive (For 42" AFOLUX PPC)

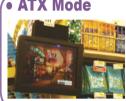
Selectable AT/ATX Mode Easily select the AT/ATX power mode with an easily accessed switch.







Automatic start when power connected. easy to control multiple Panel PCs from a single point.





Power management function turns the system to standby mode to save power when the Panel PC is not used Remote control via Network

Intelligent Light Sensor

Intelligent adjusts the screen brightness to mach the ambient light. If the ambient light is very bright, the sensor increases the screen's brightness; conversely, if the PPC is used in a darkened room, the display is dimmed.

















- Reduces cost of operation by reducing the power usage
- Extends backlight life
- Provides comfortable viewing

OSD Adjustment with Remote Control

For convenience, AFL-26AE/642AE series is especially designed with OSD keypad below the front panel allowing fast volume and brightness adjustment.



- Volume Adjustment
- · Brightness Adjustment
- Auto Adjustment
- LCD On/Off
- OSD Lock Function



CD/DVD/Blu-ray Drive Bay provides extra storage capacity

There two options for disk drives in AFL-6 series:





A. Slim Type CD-RW/DVD Combo Drive

For convenience, AFL-26AE/642AE series is especially designed with OSD keypad below the front panel allowing fast volume and brightness adjustment. The drive is able to write CD-R/RW discs and also can perform as a regular DVD-ROM drive.

| Drive Type | Internal Slim CD-RW/DVD Combo Drive | | | | | |
|-----------------------|-------------------------------------|---------------------------------------|--|--|--|--|
| Data Transfer Rate | Write: CD-R: 24X / CD-RW: 24X | Read: DVD-ROM: 8X / CD-ROM: 24X | | | | |
| Interface | SATA | | | | | |
| Buffer Memory | 2MB | | | | | |

B. High Capacity Full HD Storage Medium-Blu-ray (Only for Intel GM45 Platform)

- Full HD high-definition media playback
- More than five times the storage capacity of traditional DVDs
- Backwards compatible with DVD/CD

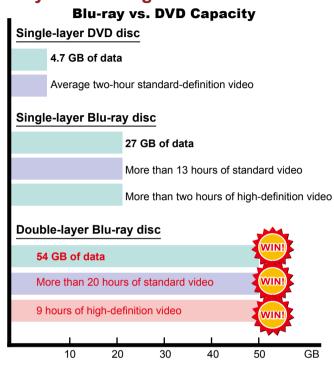
| | Blu-ray WIN! | DVD |
|---|-----------------------------|---------------------------------------|
| Laser wavelength | 405 nm (blue-violet laser) | 650 nm (red laser) |
| Storage capacity (single side) High St. Capac | | 4.7 GB per layer 8.5 GB both layer |
| Numerical aperture, NA | 0.85 | 0.60 |
| Protection Layer | 0.1mm | 0.6mm |
| Raw data transfer transfe | | 11.08 Mbit/s 10.08 Mbit/s |
| Mandatory video codecs | MPEG-2 MPEG-4 AVCVC-1 | MPEG-2 |
| Video resolution (maximum) | ull HD 1920×1080 | * 720 x 480 (NTSC) 720 x 576 (PAL) |

^{*} NTSC mean in USA and Canada or PAL mean in Europe, Australia and New Zealand.

Wireless Connection

Building, Airport, Road Surveillance System Storage Media







The most Powerful x86 architecture Digital Signage System

AFL-26AE/642AE GM45 systems with Intel's 4500MHD HD graphics core, which makes sure you are getting the best graphics possible. It also has Blu-Ray video playback, you could encode and decode many video formats and etc thanks to ClearVideo technology.

FULL HD Blu-ray Disc

GM45 Chipset hardware based decoding for Blu-ray content

FULL HD LCD







720 x 480 (NTSC)



| | Content Format | | | | | Real Time | | |
|-------------------------------|--------------------------|----------------------------|---------------------------------|--------------------------------|--|--|--------------------|--|
| | Video Formant Support | Graphics Format Support | Others | | Compatibility | Interactivity | Information | ImageQuality |
| RISC-based Digital Signage | Fewer | Fewer | - | Dual Mirror Display | Confined to specific program | - | - | Normal |
| X86-based Digital Signage | More | (HTML, HFF, | Windows Media, Powerpoint | Dual Independent Display | Compatible with Windows based application program | Built-in touchscreen and bluetooth draw your customers in and keeps them involved | Wireless /HSUPA | 3D comb filter and noise reduction technology enhance more crystal-clear picture |

Automation Panel Solutions

All-in-One Touch POS

> 3 ligital lignage

Video Wall Controller

> SCased plutions

PACSmate Medical

> Optional Peripherals

IEI Quick Mounting Technology

Install Anywhere

• Lift Stand





• Wall Arms

ARM-50



Wall Mounts



Ceiling Mounts



Mobile Mounts



| | STAND-A26-R10 | ARM-50 | WK-80 | CEILMT-135 | STAND-M100 |
|-----------------------|--|--|--|--|--|
| Weight Capacity | 7.3–16.3 kg | < 50 Kg | < 80 Kg | < 135 Kg | < 100 Kg |
| Monitor Swivel | 0 ° | 20 ° | 0 ° | 20 ° | 0 ° |
| Swivel (Left / Right) | 0 ° | 360 ° | 0 ° | 180 ° | 0 ° |
| Pivot (Up / Down) | +25°/-5 | 45 ° | 0 ° | 20 ° | 0 ° |
| Mounting | VESA 75mm x 75mm VESA 100mm x 100mm VESA 200mm x 100mm VESA 200mm x 200mm | VESA 75mm x 75mm VESA 100mm x 100mm VESA 200mm x 100mm VESA 200mm x 200mm | VESA 75mm x 75mm VESA 100mm x 100mm VESA 200mm x 100mm VESA 200mm x 200mm | VESA 400mm x 200mm VESA 400mm x 400mm | VESA 100mm x 100mm VESA 200mm x 100mm VESA 200mm x 200mm VESA 400mm x 200mm VESA 400mm x 400mm |





Large Size 42" FULL HD AFOLUX Panel PCs

AFL-642AE-GM45

Intel® Core™2 Duo T9400 2.53GHz Processor (max.)



Features

- WiFi 802.11b/g/n connection
- Built-in two speakers
- Built-in Bluetooth technology rids systems of cables and allows wireless connection to peripheral devices like headphones, printers, barcode readers or game controllers
- The Ambient Light Sensor helps conserve energy
- VESA-mountable for flexibility in mounting and deployment
- SAW touch screen with durable glass construction is perfect for healthcare, retail and hospitability applications (Optional)
- 42" tempered glass with AR(anti-reflection) coating (Optional)
- Ease of use OSD control below the front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)



Specifications

| Model | | AFL-642AE-GM45 |
|----------------------------|------------|---|
| LCD Size | | 42" |
| Max Resolution | | 1920 x 1080 |
| Brightness (cd/m²) | | 450 |
| Contrast Ratio | | 4000:1 |
| LCD Color | | 16.7M |
| Pixel Pitch (mm) | | 0.4845(H) x 0.4845(V) |
| Viewing Angle (H-V) | | 178° / 178° |
| Backlight MTBF (hrs) | | 50000 |
| SBC Model | | AFLMB2-GM45-R10 |
| CPU | | Celeron® M575 2.0GHz / Core™2 Duo P8400 2.26GHz |
| Chipset | | Mobile Intel® GM45 |
| RAM | | Supports two 2GB (Maximum) 533MHz/667MHz DDRII SO-DIMM |
| | | 1 x RS-232 COM Port 1 x RS-232/422/485 COM port 2 x RJ-45 for Giga LAN 4 x USB 2.0 |
| I/O Ports and Switches | | 1 x Power Switch 1 x Reset Button 1 x HDMI Port |
| | | 1 x Audio Port 1 x VGA Port |
| | SSD | CF Typell |
| | 330 | CD/DVD Combo Drive |
| Orive Bay | ODD | Blu-Ray Drive (Optional) |
| | HSUPA | 1 x HSUPA Mobile Module (USB Interface) |
| Natchdog Timer | | Software programmable supports 1~255 sec. System reset |
| Audio | | AMP 5W + 5W |
| Extension | | 1 x Wireless 802.11 b/g/n Lan Module (Mini PCIe Interface) 1 x Bluetooth Module (USB Interface) |
| HDD Drive Bay | | 1 x 2.5" SATA HDD bay |
| HSUPA Mobile Solution | (Optional) | 1 x HSUPA Mobile Module (USB Interface) |
| Construction Material | | Metal front frame |
| OSD function | | OSD Keypad below the Front Panel Remote Control for OSD Function |
| _ED Function | | 1 x Power ON/OFF LED on Front Panel |
| Mounting | | Wall, Stand and Arm / VESA 400mm x 200mm |
| Front Panel Color | | Black C |
| Dimension (WxHxD) (mm) | | 1026 x 626 x 127 |
| Operation Temperature (°C) | | 0°C ~40°C With HDD 0°C ~45°C With CF Card or SATA interface 2.5" SSD HDD |
| Storage Temperature (°C) | | -20°C ~60°C |
| Net Weight | | 35 Kg |
| IP Level | | IP64 |
| Touch Screen | | Surface Accoustic Wave Type (optional) |
| Power Requirement | | 100VAC~240VAC, 50/60Hz |
| | | |

Automation Panel Solutions

2

I-in-One ouch POS

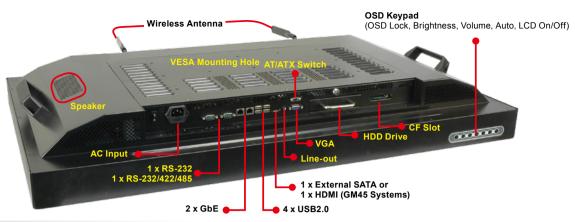
3 igital ignage

/ideo Wall

SCsed olutions

> 6 CSmate dical

Optional Periphera



Naming Rule

AFL-642 AE-GM45-T9400/W T-S/OD/2G/HU01-R10

A: Display Size

42=42" FULL HD (1920 x 1080)

B: Mechanism Design

Α

C: Chipset/CPU Code

D: WiFi 802.11 b/g/n

Ordering Information

E: LCD Protection

T-S=SAW (Surface Acoustic Wave) Touch Screen Empty=Tempered GlasA: Display Size

F: Optical Disk Drive (For GM45 Systems)

OD=CD/DVD COMBO BD=BLU-RAY ROM

G: Memory Capacity

1G=1GB DDR2 RAM 2G=2GB DDR2 RAM

H: HSUPA Connection

| Model | | Description | |
|---------------------------------|--|---|--|
| | AFL-642AE-GM45-CM575/WT-S/*(OD)/1G/**(HU01)-R20 | 42" 450cd/m² 1920 x 1080 panel PC with Celeron® M 575 2.0GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, SAW touch screen, Bluetooth, RoHS | |
| SAW Touch Panel | AFL-642AE-GM45-P8400/WT-S/*(OD)/2G/**(HU01)-R20 | 42" 450cd/m² 1920 x 1080 panel PC with Core™2 Duo P8400 2.26GHz CPU, 2GB DDR2 RAM, 802.11 b/g/n wireless module | |
| | AFL-642AE-GM45-T9400/WT-S/*(OD)/2G/**(HU01)-R20 | 42" 450cd/m² 1920 x 1080 panel PC with Core $^{\rm TM}2$ Duo T9400 2.53GHz CPU, 2GB DDR2 RAM, 802.11 b/g/n wireless module | |
| Anti-Reflective | AFL-642AE-GM45-CM575/W/*(OD)/1G/**(HU01)-R20 | 42" 450cd/m² 1920 x 1080 panel PC with Celeron® M 575 2.0GHz CPU, 1GB DDR2 RAM, 802.11 b/g/ n wireless module, Bluetooth, RoHS | |
| Tempered Glass Protection | AFL-642AE-GM45-P8400/W/*(OD)/2G/ **(HU01)-R20 | 42" 450cd/m² 1920 x 1080 panel PC with Core™2 Duo P8400 2.26GHz CPU, 2GB DDR2 RAM, 802.11 b/g/n wireless module, Bluetooth, RoHS | |
| | AFL-642AE-GM45-T9400/W/*(OD)/2G/**(HU01)-R20 | 42" 450cd/m² 1920 x 1080 panel PC with Core™2 Duo T9400 2.53GHz CPU, 2GB DDR2 RAM, 802.11 | |

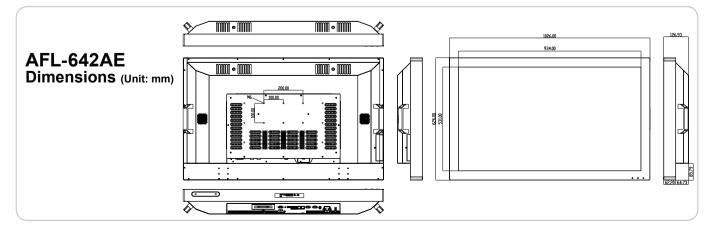
^{*} OD=CD/DVD COMBO, BD=BLU-RAY ROM

Packing List

| Item | P/N | Q'ty | Remark |
|----------------------|------------------------|------|--------------------|
| IR Remote Controller | 7Z000-8T00322ICP01G-RS | 1 | |
| Power Cord | 32000-000002-RS | 1 | Length:1830mm |
| Antennas | 32500-004000-RS | 2 | For 42" AFOLUX PPC |
| User's Manual CD-ROM | | 1 | |

Optional Mounting Kits

| Mounting Kits | | Model |
|-------------------|---------|------------|
| WALL MOUNTS | | WK-80 |
| WALL ARMS | | ARM-50 |
| Stand | Desktop | N/A |
| | Mobile | STAND-M100 |
| Ceiling Mount Kit | | CEILMT135 |



AFOLUX ACT Series

RFID Solutions

The ACT series integrated with the RFID technology are the complete access control and security systems for commercial, residential, industrial, financial, education and government institutions.



Home Automation

Digital Signage

Innovative

- Built-in RFID reader, works with EM or Mifare cards and tags
- In-wall mounting design
- Intuitive touch panel for easy operation

Flexible

- Built-in webcam and microphone can be used as an intercom through the LAN connection or an biometric access control system based on facial and voice
- Computer architecture under Windows operating system enables system developers to easily integrate versatile applications

Reliable

- Meets MIL-STD 810F testing procedures
- Sealed against water and dust intrusion (IP64) Front Panel)
- Fanless system design decrease downtime, reduce the need for on-site support

Wireless

- 802.11 b/a WLAN
- Bluetooth® 2.1
- HSUPA (Optional for ACT-412A)



ACT-457A

5.7" RISC-based EM/ **Mifare Access Control Terminal**





ACT-408A 8" EM/Mifare Access **Control Terminal**

ACT-08A

8.4" SVGA Intelligent **Access Control Terminal**





ACT-412A 12.1" EM/Mifare Access **Control Terminal**

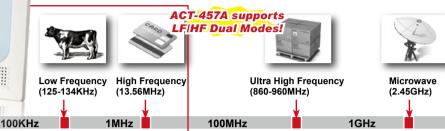
| Model | | ACT-457A | ACT-408A | ACT-08A | ACT-412A | |
|------------------|------------|---|--|---|--|--|
| LCD | Size | 5.7" | 5.7" 8" 8.4" | | 12.1" | |
| Spec. Resolution | | 640 x 480 | 800 x 600 | 800 x 600 | 1024 x 768 | |
| | Brightness | 400 cd/m² | 250 cd/m² | 400 cd/m² | 400 cd/m² | |
| CPU | | Alchemy AU1250 500MHz | Intel® Atom™ process N270 1.6GHz CPU | Intel® Celeron® M processor (1.0GHz) with 512KBL2 Cache | Intel® Atom™ process N270 1.6GHz CPU | |
| | | | | Intel® Atom™ process N270 1.6GHz CPU | | |
| Special Features | | door relay, alarm relay and exit button input • Preinstall Windows® CE5.0 operating system in the 1GB SD Card | In wall mounting mechanism-Built-in open door relay, alarm relay and exit button input Reader tamper proof detection function Able to connect external Wiegand 26 slave reader | | In wall mounting mechanism 2 DI and 2 DO provide device control applications | |

ACT Series General Features



Integrated RFID Technology

Since RFID technology uses radio frequency as data transmission intermediary, it can be classified by at what frequency band the RFID system adopts since different frequency will results in different physical attributes as well.



| | | Low Frequency | | High Frequency (13.5 | UHF | | |
|-------------------|---------|------------------|---------------------------------|---------------------------|----------------|--------------------------|--|
| | | (125KHz) | ISO14443 ISO15693 | | Felica (NFC) | (860-960MHz) | |
| Data r | ate | Up to 16kbps | Up to 106kbps Fast | er! Up to 53kbps | Up to 424kbps | Up to 640kbps | |
| Reading D | istance | 0-200cm | 00cm 0-10cm Long 0-150cr | | 0-10cm | 300-800cm | |
| Mamani | R/O | 48/64 bits | 64 bits | 64 bits | 64 bits | 64 bits | |
| Memory | R/W | 2048/1024 bits | 512-4096 bits Capa | gh city! Max 2048 bits | N/A | Max 4096 bits | |
| | Liquid | Low | Mid | Mid | Mid | High | |
| Interfe- rence | Metal | High | High | High | High | High | |
| | RF | Very Low | Low | Low | Low | High | |
| Secur | ity | 32 bits Password | High (AB Keys) | Low | High (AB Keys) | 32bits Kill/Access PW | |

RFID Identification in Access Market

The ACT-457A RFID operating system contains RFID tags, Reader Antenna, Reader and Software (operation system, middleware, applications). When a command is generated by application, reader encodes the command (we say to read tag UID for example) and transmits it with RF format. Tag in RF coverage range then receives RF, turns it into energy, decodes the command and response (return its UID '01234567') in RF format accordingly.



5GHz



RFID in Access Market Advantages:

• High Security

Each RFID tag contains an integrated chip with a unique permanent identification (UID) number burned-in during the manufacturing process and make counterfeiting difficult.

- High Efficiency
- Multiple tags can be read in parallel; no line of sight reading
- High Durability

Less subject to environmental damage

🖶 IEI RFID Software Development Kit

Allows the user to select the social part use

Allows the user to select the serial port used by the to communicate with the RFID reader module.

B Commands Area

Shows various request options for user to select.

C Data Input Area

The data input area is where the user enters block number, key, key data, and other information required by certain commands.

Raw Data Display Area

Shows all communication logs and responses of the executed commands.

EM Card ID Display Area

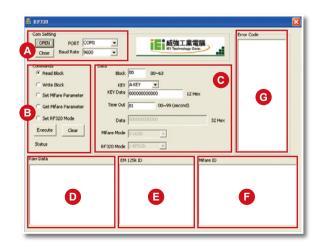
Displays the EM card ID when the EM card is detected.

Mifare Card ID Display Area

Displays the Mifare card ID when the Mifare card is detected.

Error Code Display Area

Shows the error message when an error occurs.





Video/Audio Hardware Device Ready for Third-party Integration

ACT-412A is unsurpassed in functionality with built-in 3W speakers and microphone for bi-direction voice communication or voice message, 300K pixel web-camera for real-time image/video access and capture or facial identification. The ACT-412A offers the unique opportunity for third-party hardware integration.



300K pixel Camera up to VGA resolution (640 x 480)



Face Recognition

The digital camera captures the image of a person's face and compares facial contours and other facial features with those stored in a database

Microphone



Voice Recognition

The microphone captures the voice of a person and compares the signature frequencies with those stored in a database

3W Speakers



High quality handsfree speakerphone

Talk with visitors while they wait outside



Access allowed



Tough System Design Ideal for In and Outdoor **Applications**

The housing of the ACT terminal is hard plastic with IP64 front panel protection. With anti-shock, anti-vibration shields and extended temperature -10°C~50°C system design is secured against vandalism and protected against extreme environmental conditions.



Waterproof Testing



Vibration/Shock Testing



Dustproof

Vibration

Follow MIL-STD-810F 514.5C-1

Shock

- 1. Operating Shock Half-Sine Wave Shock 3G: 11ms, 3 shocks per axis: Vertical / Transverse / Longitudinal.
- 2. Non-Operation Shock Half-Sine Wave Shock

10G: 11ms, 3 shocks per axis: Vertical / Transverse / Longitudinal.

Windows® Environment for Easy and Fast 3rd Party Integration

Windows® CE 6.0 and Windows® XP Embedded operating system are able to integrate with other application to create a complete solution.

LED only for display of time and card number









This pre-built IEI standard OS image comprises all necessary peripheral drivers, library and API (Application Programming Interface) for accessing peripherals, and standard Windows application software and development support.

Windows Applications















Internet Explorer Virtual Network Computing

Application Development Support

- Win32 (C/C++)
- MFC (C++)
- NET Compact Framework (C# and VB .NET)
- ATL (Active Template Library)
- COM and DCOM
- XML
- JScript 5.6

Networking

- Standard Modem Support for Dial Up
- Networking
- Network Utilities (IpConfig, Ping, Route)
- TCP/IP, TCP/IPv6

- Windows Networking API/Redirector (SMB/CIFS)
- Winsock Support
- FTP Server, Web Server (HTTPD), Telnet Server

Applications



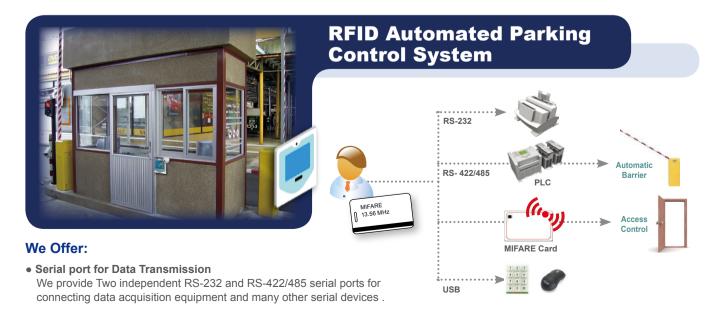
Cashless Payment System in Vending Machine

We Offer:

- Mifare card/tag reading capability for payment
- Real-time information/product advertising update via LAN



- 5.7" large color TFT LCD shows the visitor information, delivers event information
- Interactive touch panel allows users access the information by fully interface display, all operation can be done on the touch screen directly
- Sleek frame and in-wall mounting match ever location



Automatio Panel Solutions

All-in-One Touch POS

3 Digital Signage

Video Wall Controller

RISCbased Solutions

PACSmat

Optional Peripherals

Access Control Door System

The two-in-one EM/MIFARE compliant RFID reader installed in the ACT-08A x86 based panel PC supports sophisticated security applications. Advanced third-party voice and face recognition software can be integrated with the embedded camera and microphone to enable the development of complete security systems to protect restricted environments in banks, government buildings and other sensitive areas.

Microphone

MIFARE/EM Card



• Face Recognition

The digital camera captures the image of a person's face and compares facial contours and other facial features with those stored in a database in a few seconds.



We Offer

 x86 architecture that is easy for system integrator application development

Bluetooth Connectivity

Bluetooth infrastructure eliminates the use of wires or line-of sight.



The microphone captures the voice of a person and compares the signature frequencies with those stored in a database.

· High quality handsfree speakerphone Talk with visitors while they wait outside.



Healthcare Solutions

The ACT-08A with Radio Frequency Identification (RFID) technology applied in hospitals and healthcare facilities can identify and track patients, objects, and assets, and can speed up or eliminates many manual operations in checking and processing patients.

Speakers

Medication Tracking System

Monitoring the entire flow of medication use, from shipment to administration, helps prevent medical mistakes.

 Asset Tracking Attaching an RFID tag to each piece of equipment and strategically locating ACT-08A readers throughout the area of operations where the hardware is used.

• Family Access Control to Babies in Neonatal Care

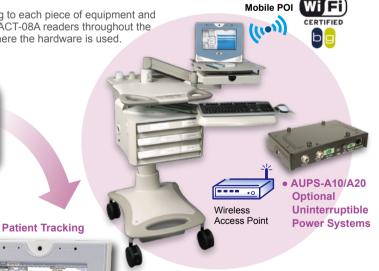
After authorization, families have the ability to view details about their babies on the ACT-08A outside the baby care room.

We Offer

• Compact Fanless System

• Optional Uninterruptible Power System

Protecting your ACT-08A from damage in medical environments is critically important. Uninterruptible power supplies reduces the risk of losing valuable data when power failures occur.





Wristband (with space to insert small paper card tag)

AFOLUX ACT Series

ACT-457A 5.7" RISC-based RFID Access Control Terminal

Features:

- Integrated with RMI Alchemy™ AU1250 500MHz media processor provides hardware decode for MPE1/2/4, DivX and WMV9
- Dual 125KHz-EM/13.56MHz-Mifare RFID reading capacity
- 5.7" TFT touch color screen, fully interface display, all operation can be done on the touch screen directly
- Built in open door relay, alarm relay and exit button input.
- Built-in 2W speaker & microphone for bi-direction voice communication or voice message
- 300K pixel web-camera for real-time image/video access and capture or facial identification
- Windows® CE5.0 operating system support
- IP64 Front panel watertight and dustproof is the perfect solution for harsh
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)







MPEG1 MPEG2





ΕM



Integrated with RMI Alchemy™ technology to enable users to play DVD quality video efficiently at full-frame rates with low power consumption. The integrated MAE (Media Acceleration Engine) supports common digital video media including MPEG1, 2, 4, DivX, and WMV9, and delivers full D1 resolution without the need for a DSP or specialized coding.



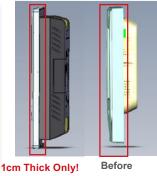


| Multi Video/Audio Format Support Table | | | | |
|--|---|--------------|------------------------|--|
| Format | Stream Type | Audio Format | Supported Bit Rates | |
| MPEG-1 | System | MPEG | 8 Mbps | |
| MPEG-2 | Program | MPEG | 10 Mbps | |
| WIF LG-2 | Transport | MPEG | 8 Mbps | |
| | Unencrypted only | WMA | 2.5 Mbps | |
| WMV9 | CBR w/o filters, 720x480 | WMA | 2.5 Mbps | |
| | VBR w/o filters, 720x480 | WMA | 2.5 Mbps | |
| B: V | Unencrypted only/ no subtitles - V3.11 | MP3/AAC/MPEG | 4 Mbps | |
| DivX | V4 | MP3/AAC/MPEG | 4 Mbps | |
| | V5 | MP3/AAC/MPEG | 4 Mbps | |
| MPEG-4 MP4 ISO/EIC 14496-2. | Advanced Simple Profile – level 5 | AAC | 3 Mbps | |
| MPEG-4 AVI | Advanced Simple Profile – level 5 | MP3, AC-3 | 4 Mbps | |
| | | | | |

In-Wall Mount

Using an in-wall mounting box allows you to achieve breath taking "picture frame" style installations.









How a Relay Switch Works in ACT-457A?

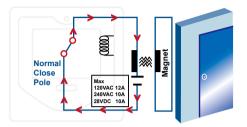
ACT-457A is built-in two relay output controls which are electromechanical switches operated by a flow of electricity in one circuit and controlling the flow of electricity in another circuit.

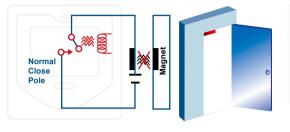
When the electromagnet is energized, it exerts a force on the armature that overcomes the pull of the spring and moves the contact so as to either complete or break a circuit. When the electromagnet is de-energized, the contact returns to its original position.

• Normal Close Example:

Relay normaly closed means that in its normal state the relay is closed. So when energized it will open and break the circuit.



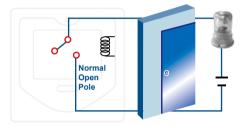




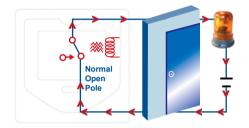
• Normal Open Example:

When the relay is normally open, there will be no connection between the two wires until the relay receives a signal (outside source to energize relay) to close. Simply put, an open relay is the same as a light switch that is turned off, and will always be off until told to turn on.





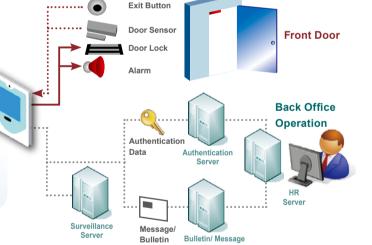
MIFARE 13.56 MHz





User is identified by RFID sensor, and then the personal access information will be automatically stored and backup at surveillance server. At the same time, Identification data will be sent to back-end system to process. Authentication server will compare with valid list and feedback the result via Ethernet.





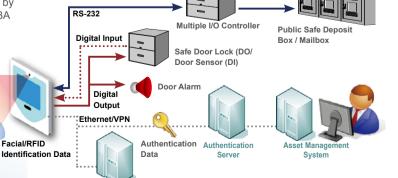
Mifare Application Restrict Assets

What is MIFARE®?

MIFARE is a contact-less smart card technology owned by Philips. The MIFARE technology is based on ISO 14443A operating at a frequency of 13.56 MHz. Its application segments are ranging from the identification, access control, payment and billing systems, and many more.



→ RS-232



Automation Panel Solutions

All-in-One Touch POS

> 3 Digital Signage

Video Wall Controller

> ISCased olutions

ACSmate Medical

Optional

Surveillance Servei

Network



Remote Management Tool

IEI RMT enables remote management of several distributed ACT terminals at the same time via network. You can quickly access distributed ACT terminals from anywhere in the world and control/resolve issues remotely!











IEI RMT Tool

Input the range of IP address on the Internet, the management system will automatically scan the distributed ACT terminals in allowed range.









Web-based Configurator

Allows users to access ACT-457A and modify the settings via web browser interface anytime, anywhere without any PC client application installed. It makes management of ACT-457A in the network very easy and convenient for IT administrator and minimize time and cost for system maintenance.



System Setting

User can inquire system information and set up Ethernet and Wireless parameters in system setting Remote restart option allows users to restart the system once any abnormal circumstance occurs and a restart procedure is needed.





Runtime DEMO

ACT Runtime Demo is a pre-installed application which helps user quick experience functions of ACT-457A



300K Pixel CMOS Camera

In video camera window, user can preview video from camera. Capture and Open function enable user to capture preview image, save as bitmap file and open it immediately.



Access Control by Smart Card or Exit Button

In home automation page, user can open the magnetic door by press exit button or read sample RFID card.



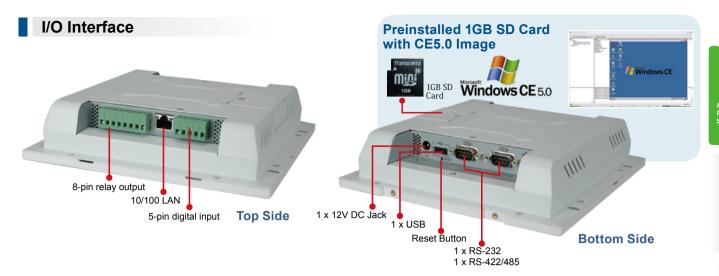
Member Login

User can experience RFID reading function in the member login page. When sample card is read, application will identify and display personnel information on the screen. User can edit the valid XML member list file with PC based utility IEI provides and upload to the ACT-457A



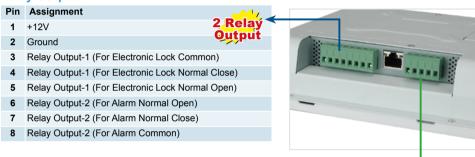
Alarm

When user press light button on the screen, the lights on the screen will enable(represented the access door alarm is activated)



Digital Input/Relay Output Pin Definition

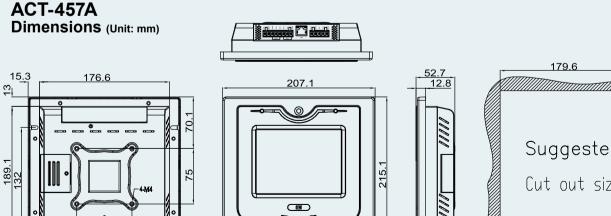




300K CMOS 5.7" 4-wire Camera Power LED Resistive touch panel Power Switch USB 2.0 2W Speaker x2

75 184.7

| Digital Signal Input | | | | | |
|----------------------|-----|--|--|--|--|
| | Pin | Assignment | | | |
| | 1 | Digital Signal Input-1 (For Exit Button) | | | |
| | 2 | Ground | | | |
| | 3 | Digital Signal Input-2 (For Door Sensor) | | | |
| | 4 | Ground | | | |
| | 5 | Ground | | | |



Suggested Cut out size

ACT Series-V10



| Model | | ACT-457A-AU1250 | | Working | EM 125KHz and MIFARE 13.56MHz |
|-------------|-------------------------|--|-------------------|----------------------------------|---|
| | LCD Size | 5.7" | RFID Module | Frequency | |
| | Max Resolution | 640 x 480 | | Reading Range | 5 cm (Under 13.56MHz)/1~3 cm (Under 125KHz) |
| | Brightness | | Drive Bay | SSD | Mini SD Card |
| | (cd/m²) Contrast | 400 | | Watchdog Timer | Software programmable supports 1~255 sec. System reset |
| | Ratio | 300 : 1 | Other Features | Audio | AMP 2W + 2W |
| Display | LCD Color | 262K | reatures | Extension | Webcam & Mic Function |
| | Pixel Pitch | 0.00(11) 0.40(1) | | LED Function | 1 x Power ON/OFF LED on Front Panel |
| | (mm) Viewing Angle | 0.06(H) x 0.18(V) | | Construction Material | ABS + PC Plastic front frame |
| | (H-V) | 140°/100° | | Mounting | Panel, Wall, VESA 75mm x 75mm |
| | Backlight MTBF (hrs) | 50000 (LED Backlight) | Physical | Front Panel Color | Blue & White |
| | CPU | Alchemy AU1250 500MHz | | Net Weight | 0.7Kg |
| Motherboard | Bootloader Storage | 2MB | | Dimension (WxHxD) | 215 x 207 x 52.7 |
| Motherboard | RAM | 256MB DDR2 SDRAM | | (mm) | |
| | OS/Program Storage | 1GB SD Card for WIN CE 5.0 OS and User Program | | Operation Temperature (°C) | -10°C ~60°C |
| | | 1 x RS-232 COM Port | | Storage | |
| | | 1 x RS-422/485 COM Port | Environment | - , | -20°C ~70°C |
| | | 1 x RJ-45 for 10/100Mbps Ethernet | Liviloninent | (°C) | |
| | | 2 x USB 2.0 | | IP Level | IP64 |
| | | 1 x Power Jack | | EMC | CE, FCC, CCC |
| | | 1 x Reset Button | | Safety | СВ |
| I/O Ports | | 1 x 5 Pin Terminal Block for Signal Input 2 x Digital Input * | Touch Screen | | Resistive Type 4-Wire |
| | | 3 x GND | | | P/N: 63000-FSP0481AD101C-RS |
| | | 1 x 8 Pin Terminal Block for Relay Output 2 Relay (One NC and one NO contacts for | Power Adapte | r | Power: 48W Input: 90VAC~264VAC, 50/60Hz |
| | | Alarm, | | | Output: 12VDC |
| | | One NC and one NO contacts for Lock) | Power Requirement | | 12V DC-IN |
| | | 1 x 12V 1A max. output (for Door control) 1 x GND | Power Consumption | | 9W , Maximum 21W (include Max 12V@1A internal Power output) |

^{*}Low level(0): 2V MAX., High level (1): +4~+50V

Relay Specifications

| Contact rating | 12A 120VAC, 10A 240VAC, 10A 28VDC |
|------------------------|-----------------------------------|
| Max. switching voltage | 240VAC, 60VDC |
| Max. switching current | 12A |
| Min. switching load | 10mmA 5VDC |

Packing List

| Item | P/N | Q'ty | Specifications |
|----------------------------|---|------|--------------------------------|
| SELF DRILL OVAL HEAD SCREW | 44233-030081-RS | 4 | M3*8;T24 |
| Power Cord | 32000-000002-RS | 1 | 1830MM; European Power Cord |
| Power Adapter | 63000-FSP0481AD101C-RS (48W Power Adapter) | 1 | VAC: 90V~264V; 50W; 1500MM |
| Touch Pen | XTR104-0002-RS | 1 | |
| Utility CD | | | |

Utility CD includes:

- ACT-457A User Manual
- ACT-457A DEMO AP (w/ Source code) ACT-457A SDK
- IEI MIPS Windows CE standard SDK
- Record application development guide Camera application development guide
- DI/DO application development guide
- RFID configuration guide
- IEI Utilities
- ACT Remote Management Tool
- ACT Web-based Configurator



Ordering Information

| Model | Description |
|---------------------------------|---|
| Δ(:1-45/Δ-Δ111250/1-R/256MR-R10 | 5.7" 400cd/m² VGA fanless panel PC with Alchemy AU1250 500Mhz, touch screen, 0.3M camera, MIFARE & EM RFID module, door control, 256MB DDR2, ROHS |

^{*}Preinstalled 1 GB SD Crad with CE5.0 image

AFOLUX ACT Series

ACT-408A 8" EM/Mifare Access Control Terminal

Features:

- Intel® Atom™ processor N270 1.6 GHz CPU for ultra low voltage fan-less support
- Dual 125KHz-EM/13.56MHz-Mifare RFID reading capacity
- 8" TFT touch color screen, fully interface display, all operation can be done on the touch screen directly
- Built-in open door relay, alarm relay and exit button input
- Reader tamper proof detection function
- Able to connect external Wiegand 26 slave reader
- Built-in 3W speaker & microphone for bi-direction voice communication or voice message
- 300K pixel web-camera for real-time image/video access and capture or facial identification
- 802.11 b/g wireless connection
- Advanced in-wall mounting mechanism design
- IP64 Front panel watertight and dustproof is the perfect solution for harsh environments
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)



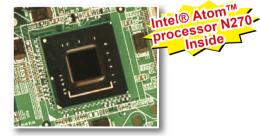


Windows® Based Terminal easy for Application Development

Low Power Intel® Atom™ CPU Inside

The ACT-408A integrated with the 45 nm Intel® Atom™ processor N270 has a 1.60 GHz clock speed and a 533 MHz FSB with a 512 KB L2 cache. The Intel® Atom™ is interfaced through the 533 MHz FSB to an Intel® 945GSE graphics memory controller hub (GMCH) which is in turn interfaced through a high-speed direct media interface (DMI) to an Intel® Mobil ICH7-M I/O controller hub (ICH).

| Processor | Intel® Atom™ N270 1.6G | |
|-----------|--|--|
| Chipset | Intel® 945GSE / ICH7M | |
| Memory | Supports one 2GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM | |



In-wall Mounting Holes



In-Wall Mount

Using an in-wall mounting box allows you to achieve breath taking "picture frame" style installations.







Automation Panel Solutions

> All-in-One rouch POS

3 Digital Signage

Video Wall Controller

> SISCased olutions

ACSmate ledical

Optional Peripheral



Wiegand 26 Slave Reader Connection

ACT-408A remains an Wiegand communications bus interface allowing physical entrance control via a standard Wiegand 26 protocol through the slave reader. Its remarkable advantage is that it can match with most of the access controllers on the market.

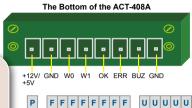
WIEGAND



WIEGAND Card Reader

- High reliability Snow, rain, extreme temperatures, radio frequency interference or external magnetic fields will not affect a Wiegand-based reader.
- 100 Meter Long Distance Transmission

4 (5) (6)



Extending communications with the WIEGAND protocol

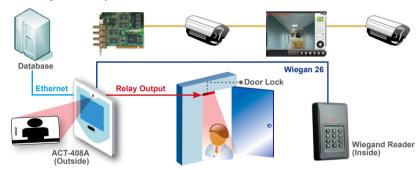
This wiegand format consists of a parity bit. 8-bit facility code. 16-bit user ID. and parity bit, for a total of 26 bits.





Access Control Management

Place the ACT-408A outside the door to play the advertising to attract people's attention, and identify the personal information by RFID technology. Via the Wiegand interface, connecting the slave reader inside the door, swiping the card when people leave. Dual identification for use ensure higher security level.



We Provide:

- Send out warning message by relay output
- Anti-tamper function: the alarm will activate if the ACT-408A or slave reader is destroyed

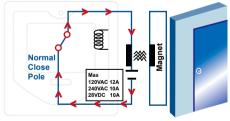
2 NC/NO Relay Output

ACT-408A is built-in two relay output controls which are electromechanical switches operated by a flow of electricity in one circuit and controlling the flow of electricity in another circuit. When the electromagnet is energized, it exerts a force on the armature that overcomes the pull of the spring and moves the contact so as to either complete or break a circuit. When the electromagnet is de-energized, the contact returns to its original position.

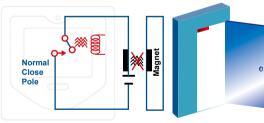
1. Normal Close Example:

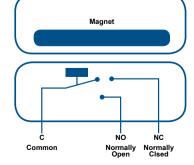
Relay normaly closed means that in its normal state the relay is closed. So when energized it will open and break the circuit.











^{*} Fail Secure: Unlocked When Energized

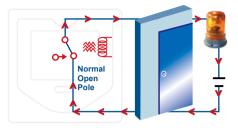
^{*} Fail Safe: Locked When Energized

2. Normal Open Example:

When the relay is normally open, there will be no connection between the two wires until the relay receives a signal (outside source to energize relay) to close. Simply put, an open relay is the same as a light switch that is turned off, and will always be off until told to turn on.







ACT-408A (Outside)

Elevator Security Management

We Provide:

Ethernet.

To improve security level in the elevator, ACT-408A with the RFID technology integrates with elevator control system and has the ability to connect to the second reader, allows double security check from the ground to other floors, restrict access to elevators form the ground floor, so only authorized people can be allowed to enter in, fit in to hospitals, office buildings and apartments.

Wiegan 26

Wiegan Proximity Reader (Inside) Ethernet

• The main system located in front of the elevator to perform access control on the building

The ACT-408A equipped with Intel® Atom™ performance

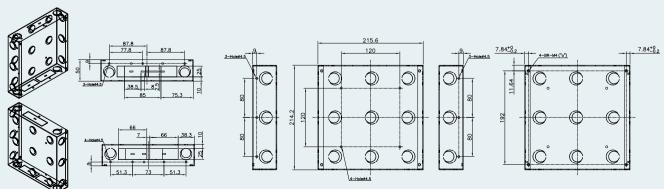
shows information, advertising and other messages via

grade processor has the ability to run multimedia files and

 The inside reader limits accessible floors for authorized people

ACT-408A
Dimensions (Unit: mm)

In-Wall Cage Dimensions (Unit: mm)



Automation Panel Solutions

All in One

3

igital ignage

dideo Wall controller

Alarm

SCsed utions

ACSmate edical

otional cripherals

I/O Interface

► Top Side

Relay Output

| Pin | Assignment |
|-----|-------------|
| 1 | +12V Output |

- 2 Ground
- 3 Relay Output-1 (For Electronic Lock Common)
- 4 Relay Output-1 (For Electronic Lock Normal Close)
- 5 Relay Output-1 (For Electronic Lock Normal Open)
- 6 Relay Output-2 (For Alarm Normal Open)
- 7 Relay Output-2 (For Alarm Normal Close)
- 8 Relay Output-2 (For Alarm Common)



Digital Signal Input

- Pin Assignment

 1 Digital Signal Input-1 (For Exit Button)
- 2 Ground
- Digital Signal Input-2 (For Tamper Sensor)
- 4 Digital Signal Input-3 (For Door Sensor)

► Bottom Side Wiegand Slave Reader Port

| Pin | Assignment |
|-----|------------------------------------|
| 1 | +12V/+5V output |
| 2 | Ground |
| 3 | Reader Data input |
| 4 | Reader Clock input |
| 5 | Reader LED Output for Valid Card |
| 6 | Reader LED Output for Invalid Card |
| 7 | Alarm |
| 8 | Ground |

RJ-45 Giga LAN CF Type II Slot USB2.0 RS-232/422/485 Port RS-232 Port

ACT-408A Specifications

| Model | | ACT-408A-N270 | |
|--------------|-------------------------|---|--|
| | LCD Size | 8" | |
| | Max Resolution | 800 x 600 | |
| | Brightness (cd/m²) | 250 | |
| Display | Contrast Ratio | 500:1 | |
| Display | LCD Color | 262K | |
| | Pixel Pitch (mm) | 0.2025(H) x 0.2025(V) | |
| | Viewing Angle (H-V) | 140°/130° | |
| | Backlight MTBF (hrs) | 30000 | |
| | SBC Model | ACTMB4-945GSE-N270-R10 | |
| Motherboard | CPU | Intel® Atom™ process N270 1.6GHz CPU | |
| Wolfierboard | Chipset | Intel® 945GSE + ICH7M | |
| | RAM | Supports one 400MHz or 533MHz DDRII SO-DIMM (2GB Max.) | |
| I/O Ports | | 1 x RJ-45 for RS-232 COM Port 1 x RJ-45 for RS-232/422/485 COM port 1 x RJ-45 for Giga LAN 3 x USB 2.0 (2 in the rear, 1 in front on the panel) 1 x Power Switch 1 x 12V DC Jack 1 x 4 Pin Terminal Block for Signal Input 3 Sensor (Door Sensor x 1, Exit Button x 1, Tamper Sensor x 1) 1 x GND 1 x 8 Pin Terminal Block for Relay Output 6 Relay (Electronic Lock x 3, Alarm x 3) 1 x 12V 1A max. output (for Door control) 1 x 8 Pin Terminal Block for Wiegand Reader 5 Input/Output (Card Reader Data input x 1, Card Reader Clock x 1, Card Reader Indicator x 2, Card Reader Alarm x 1) 1 x 5V/12V output 2 x GND | |
| RFID Module | Working Frequency | EM 125KHz and MIFARE 13.56MHz | |
| KI ID Wodule | Reading Range | 5 cm (Under 13.56MHz) / 1~3 cm (Under 125KHz) | |

| | | | 12V DC Jack |
|---|-------------------|----------------------------------|--|
| | Drive Bay SSD | | CF TypeII |
| | | Watchdog Timer | Software programmable supports 1~255 sec. System reset |
| | | Audio | AMP 3W + 3W (internal speaker) |
| | Other Features | Wireless | 1 x Wireless Lan 802.11 b/g Module (internal PCIe mini card interface) |
| | . Gatares | Webcam and Microphone | 1 x Webcam with low light function & Mic Function |
| | | LED Indicator | 1 x Power On/Off LED on Front Panel |
| | | Construction Front Panel | ABS + PC Plastic front frame |
| | | Mounting | In-Wall, Wall, Stand and Arm VESA 75mm x 75mm / 100mm x 100mm |
| | Physical | Front Panel Color | Silver |
| | | Net Weight (Kg) | 1.69 |
|) | | Dimension (WxHxD) (mm) | 225 x 236.5 x 52.5 |
| | | Operation Temperature (°C) | -10°C ~ 50°C |
| | Environment | Storage Temperayure (°C) | -25°C ~ 60°C |
| | | IP Level | IP64 Front Panel |
| | | EMC | CE / FCC / CCC |
| | | Safety | СВ |
| | Touch Screen | | Resistive Type 5-Wire (Touch controller IC is on board) |
| | Power Adapter | | P/N: 63000-FSP0601AD101C746-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC |
| | Power Require | ment | 12VDC |
| | Power Consun | nption | 38W |

Packing List

| Item | P/N | Q'ty | Specifications |
|----------------|-------------------------------|------|--------------------------------|
| Touch Pen | XTR104-0002-RS | 1 | |
| Power Adapter | 63000-FSP0601AD101C746- RS | 1 | 60W, 90VAC~264VAC, 50/60Hz |
| Power Cord | 32000-000002-RS | 1 | European Power Cord, 1830mm |
| Screw Kit | | 1 | |
| Utility CD-ROM | | 1 | |

Options

| Item | P/N | | |
|-------------------|--|--|--|
| Wall Mounting Kit | AFLWK-12 | | |
| ARM | ARM-11-RS / ARM-31-RS | | |
| STAND | STAND-C12 / STAND-B08 / STAND-100-RS/ VSTAND-A12 | | |
| OS | ACTCF-408-N270-XPE-R10 | | |
| US | ACTCF-408-N270-CE060-R10 | | |
| In-Wall Cage | ACTIWC-408-R10 | | |
| os | ACTCF-408-N270-XPE-R10 ACTCF-408-N270-CE060-R10 | | |

Ordering Information

| Model | Description | |
|----------------------------|---|--|
| ACT-408A-N270/WT-R/1GB-R10 | 8" 250cd/m² SVGA fanless panel PC with Intel® Atom™ N270 1.6GHz, 802.11b/g wireless module, touch screen, 0.3M camera with digital Mic, MIFARE & EM RFID module, support WIEGAND 26, door control, 1GB DDR2 533, RoHS | |

AFOLUX ACT Series

ACT-08A

8.4" SVGA Intelligent Access Control Terminal

Features:

- 8.4" TFT-LCD with Resistive Touch Screen
 - 8.4" SVGA (800x 600) 400 nits high brightness LCD monitor with robust 4-wire resistive touch screen emables the most convenient access and control
- Fanless 1.0 GHz Intel® Celeron® M processor with 512 KB L2 cache/ 1.0 GHz ULV VIA Eden/ Intel® Atom™ N270 1.6GHz processor
- Integrated RFID Reader in front of the Panel
 For MIFARE 13.56 MHz or EM 125 KHz RFID tag
- 300K pixel Camera up to VGA resolution (640 x 480) (Optional 1.3MP Camera with Microphone Module)
- Built-in microphone
- Wireless Connection 802.11 b/g wireless LAN Module (internal PCIe mini card interface)
- One CF Type II Slot
- Mounting Panel, Wall, Stand and Arm mounting Compliance (VESA 75 mm x 75 mm)
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)





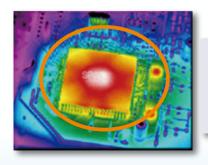
Complete Solutions for You

A. ACT-08A-9103

▶ 8.4" SVGA High Performance Access Control Terminal

Embedded High Computing Performance

The slim Intel® 910GMLE powered ACT-08A-9103 is a high-performance, low-power information access control terminal. The ACT-08A-9103 is ideal for processing-intensive applications that require superior computing performance.



With low power consumption benefit, BGA type enhances thermal performance and system stabilities significantly.

| Processor | Intel® Celeron® M 1.0 GHz/ 512k Cache |
|-----------|--|
| Chipset | Intel® 910GMLE |
| Memory | one 200-pin 2GB (maximum) DDR2 SO-DIMM |

B. ACT-08A-N270

▶ Extremely Low Power Consumption



The 45 nm Intel® Atom™ processor N270 has a 1.60 GHz clock speed and a 533 MHz FSB with a 512 KB L2 cache. The Intel ® Atom™ is interfaced through the 533 MHz FSB to an Intel® 945GSE graphics memory controller hub (GMCH) which is in turn interfaced through a high-speed direct media interface (DMI) to an Intel® Mobil ICH7-M I/O controller hub (ICH).



ACT Series-V10

intel

Automation Panel Solutions

All-in-One

3 igital ignage

Video Wall Controller

> 5 sc-

6 ACSmate

Ontional

1-97

Specifications

| Model | ACT-08A-9103 | ACT-08A-N270 | | |
|----------------------------|--|--|--|--|
| LCD Size | 8.4* | | | |
| Max Resolution | 800 x 600 | | | |
| Brightness (cd/m²) | 400 | | | |
| Contrast Ratio | 500 | :1 | | |
| LCD Color | 262 | 2K | | |
| Pixel Pitch (mm) | 0.213 (H) x | (0.213 (V) | | |
| Viewing Angle (H-V) | 120° / | 100° | | |
| Backlight MTBF | 5000 | 0hrs | | |
| SBC Model | AFLMB-9103-R10 | AFLMB-N270-R10 | | |
| CPU | Intel® Celeron® M processor (1.0GHz) with 512KBL2 Cache | Intel® Atom™ N270 (1.6GHz) | | |
| Chipset | Intel® 910GMLE | Intel® 945GSE + ICH7M | | |
| RAM | One DDRII SO-DIMM Up to 2GB | One DDRII SO-DIMM Up to 2GB | | |
| I/O Ports | 1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 1 x Giga LAN 4 x USB 2.0 1 x external SATA 1 x Power Switch 1 x Reset Button 1 x Power Jack | 1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 2 x Giga LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack | | |
| SSD | CF Type II | | | |
| Audio | AMP 1.5W + AMP 1.5 | 5W (Internal speaker) | | |
| Extension | 1 x Wireless Lan Module (802.11 b/g) (internal PCle mini card interface) | 1 x Wireless Lan Module (802.11 b/g) (internal PCle mini card interface) | | |
| Camera | 300K pixel Camera | | | |
| RFID | MIFARE (13.56MHz) & EN | M (125KHz) RFID Reader | | |
| Construction Front Panel | ABS + PC Plastic front frame | | | |
| Contruction Chassis | Aluminum Chassis | | | |
| Power Adapter | 60W Power Adapter | 48W Power Adapter | | |
| LED Function | 1 x LED on Front Panel for Power ON/OFF | | | |
| Mounting | Panel, Wall, Stand and Arm mounting (VESA 75 x 75mm) | | | |
| Color | Blue and White | | | |
| Dimension (WxHxD) (mm) | 251.72 mm x 244.69 mm x 53.3 mm | | | |
| Operation Temperature (°C) | 0°C ~ 45°C -10°C ~ 50°C | | | |
| N/G Weight | 1.1 kg | | | |
| IP Level | IP64 | | | |
| Safety & EMI | CE / FCC / CB / CCC | | | |
| | | | | |

48W

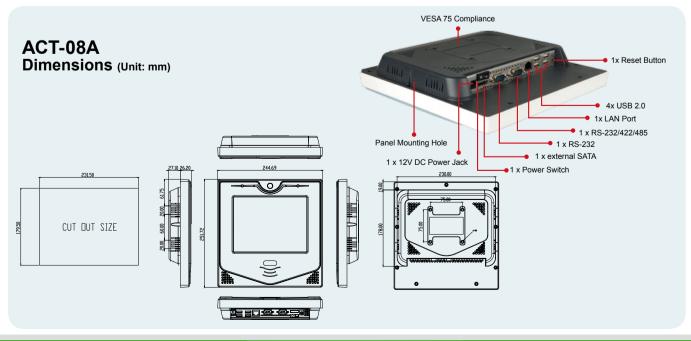
Options

| | | ACT-08A-9103 | ACT-08A-N270 | |
|-----------------------|--------------|--------------------------|-------------------------|--|
| Panel Mounting Kit | | AFLPK-08 | | |
| Wall Mounting Kit | | AFLWK-12 | | |
| ARM | | ARM-11-RS / ARM-31-RS | | |
| STAND | | STAND-B08 / STAND-100-RS | | |
| os | Win XPE | ACTCF-08-9103-XPE | ACTCF-08-N270-XPE-R10 | |
| os | Win CE6.0 | ACTCF-08-9103-CE060 | ACTCF-08-N270-CE060-R10 | |

Ordering Information

| Part No. | Description |
|-------------------------------|--|
| ACT-08A-N270/ WT-R/1GB-R10 | 8.4" 400cd/m² SVGA fanless panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, MIFARE & EM RFID module, touch screen, RoHS |
| ACT-08A-9103- 10G/WT-R/1GB | 8.4" 400cd/m² SVGA fanless panel PC with Celeron M 1GHz 512KB cache CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, MIFARE & EM RFID module, touch screen, RoHS |

Note: Win CE application without digital microphone function



All-in-Or Touch P

Digital Signage

Video Wal Controller

RISCbased Solutions

PACSma Medical

Optional Peripherals

AFOLUX ACT Series

ACT-412A



12.1" EM/Mifare Access Control **Terminal** CMOS Camera with

Features:

• Intel® Atom™ processor N270 1.6 GHz CPU for ultra low voltage fan-less support

- Dual 125KHz-EM/13.56MHz-Mifare RFID reading capacity
- 12.1" TFT touch color screen, fully interface display, all operation can be done on the touch screen directly
- 2 DI and 2 DO provide device control applications
- Built-in 3W speaker & microphone for bi-direction voice communication or voice message
- 300K pixel web-camera for real-time image/video access and capture or facial identification
- 802.11 b/g wireless connection
- Integrated Bluetooth V2.0 connection
- Advanced in-wall mounting mechanism design
- Optional high speed 3.75G broadband connectivity
- IP64 Front panel watertight and dustproof is the perfect solution for harsh
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)





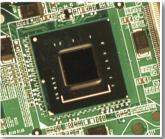
Extremely Low Power Consumption

The 45 nm Intel® Atom™ processor N270 has a 1.60 GHz clock speed and a 533 MHz FSB with a 512 KB L2 cache. The Intel® Atom™ is interfaced through the 533 MHz FSB to an Intel® 945GSE graphics memory controller hub (GMCH) which is in turn interfaced through a high-speed direct media interface (DMI) to an Intel® Mobil ICH7-M I/O controller hub (ICH).

| Processor | Intel® Atom™ N270 1.6G |
|-----------|--|
| Chipset | Intel® 945GSE / ICH7M |
| Memory | Supports one 2GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM |













In-Wall Mount

Using an in-wall mounting box allows you to achieve breath taking "picture frame" style installations.

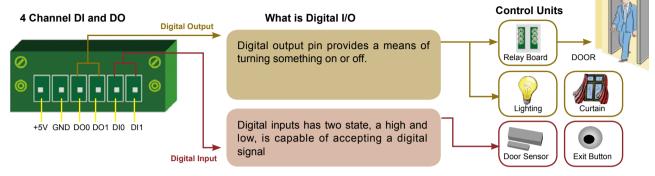


ACT Series-V10



Digital I/O Controls

The ACT-412A features its 4 channel DI/DO (2 inputs plus 2 outputs) with screw terminals design making for quick interfacing. Digital input/output (DIO) devices enable direct control of equipments, and are used in a wide variety of applications from factory automation, machine control, to home automation. You can control motors, heaters, valves, lamps and so on under the ACT-412A DIO interface.





Mobile/Backup 3.75G Wireless Connection (For Option)

HSUPA (High speed uplink packet access) is a 3G mobile telephony protocol with up-link speeds up to 5.76Mbit/s. The improvement helps the efficiency of VoIP and multimedia file uploading, reducing the working time consuming, while mobile connecting.

| GSM Generation | Uplink/Downlink Speed |
|----------------|---------------------------|
| 2G-GSM | 9.6Kbps-14.4Kbps |
| 2.5G-GPRS | 9.6Kbs-115Kbps |
| 2.75G-EDGE | 384Kbps |
| 3G-WCDMA | 64Kbps/2Mbps (Indoor) |
| 3G-WCDIVIA | 384Kbps (Outdoor) |
| 3.5G-HSDPA | 384Kbps/14.4Mbps (Max) |
| 3.75G-HSUPA | 5.76Mbps /14.4Mbps |

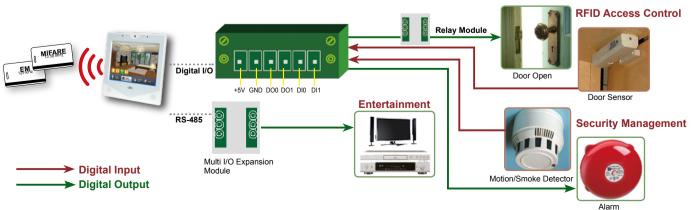




Home Automation

We Provide:

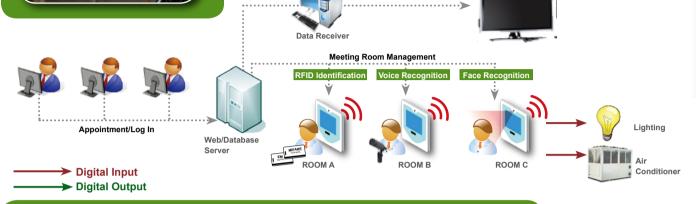
- 2 digital input and 2 digital output interface for diverse device controls such as lighting, air conditioning and other electronic devices on and off.
- Bluetooth V2.0/WLAN technology allows remote control for viewing surveillance video or adjust the temperature before returning home.
- This is an intuitive touch screen interface which can be operated using the fingertips. This system allows users to switch lights on and off, adjust brightness, and more.



1-100

Boardroom Management

In the luxury hotel or commercial environments, you can book the meeting room on the web , and all the reservations can be displayed in the ACT-412A system on the front door of every meeting room and the system has the capability to identify personal information. Integrated with software can be used as appointment booking or meeting room booking system.



Emergency Room Management

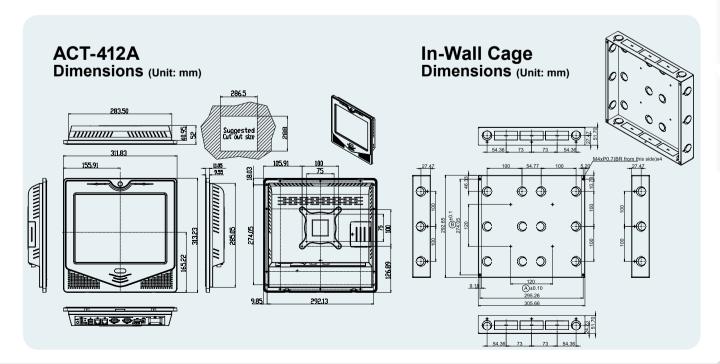
Place the RFID system ACT-412A in the emergency room, to read the personal information from the individual patient. The medical staffs can monitor the status and location of each individual ER patient and reducing waiting time to manage the rapidly changing care environment.

- Calculate the numbers of patients in the emergency room
- Actively give the nurses name list of waiting for a long time



We Provide:

- X86 system architecture and Windows environment easy for application development
- RS-485 data transmission extends distances to up to 1.2 km



I/O Interface

Digital I/O
(2 Input / 2 Output)
Power Switch
RJ-45 Giga LAN
Audio Line-out
Reset Button
USB 2.0
RS-232/422/485





ACT-412A Specifications

| AOT TIZA Opcomodions | | | | | |
|----------------------|----------------------|--|--|--|--|
| Model | | ACT-412A-N270 | | | |
| | LCD Size | 12.1" | | | |
| | Max Resolution | 1024 x 768 | | | |
| | Brightness (cd/m²) | 400 | | | |
| Display | Contrast Ratio | 450 : 1 | | | |
| Display | LCD Color | 262K | | | |
| | Pixel Pitch (mm) | 0.213mm (H) x 0.213mm (V) | | | |
| | Viewing Angle (H-V) | 120° / 100° | | | |
| | Backlight MTBF (hrs) | 50000 | | | |
| | SBC Model | AFLMB-945GSE-N270-R10 | | | |
| | CPU | Intel® Atom™ process N270 1.6GHz CPU | | | |
| Motherboard | Chipset | Intel® 945GSE + ICH7M | | | |
| | RAM | Supports one 400MHz or 533MHz DDRII SO-DIMM (2GB Max.) | | | |
| | | 1 x RS-232 COM Port | | | |
| | | 1 x RS-232/422/485 COM port | | | |
| | | 2 x Giga LAN | | | |
| | | 3 x USB 2.0 (2 in the rar, 1 in front of the panel) | | | |
| | | 1 x Power Switch | | | |
| | | 1 x Reset Button | | | |
| I/O Ports | | 1 x 12V DC Jack | | | |
| | | 1 x Audio Line-out | | | |
| | | 1 x External SATA | | | |
| | | 1 x 6 Pin Terminal Block for Digital I/O | | | |
| | | 2 x Digital Input 2 x Digital Output | | | |
| | | | | | |
| DEID W 1: E | | 1 x +5V 1 x GND EM 125KHz and MIFARE 13.56MHz | | | |
| RFID | Working Frequency | | | | |
| Module | Reading Range | 5 cm (Under 13.56MHz)/1~3 cm (Under 125KHz) | | | |
| | SSD | CF Typell | | | |
| Drive Bay | HDD | 1x 2.5" SATA HDD or optional HSUPA module | | | |
| | HSUPA (Optional) | 1 x HSUPA mobile module supports GSM 850, | | | |

| | Watchdog Timer | Software programmable supports 1~255 sec. |
|--------------|-----------------------------|---|
| | Waterlady Timer | System reset |
| | Audio | AMP 3W + 3W (internal speaker) |
| | Wirless | 1 x Wireless Lan 802.11 b/g Module |
| Other | VVIII 033 | (internal PCIe mini card interface) |
| Features | Bluetooth | 1 x Bluetooth Function |
| | Didelootii | (internal USB interface, Bluetooth V2.0) |
| | Webcam and Micropone | 1 x Webcam with low light function & Mic Function |
| | LED Indicator | 1 x Power On/Off LED on Front Panel |
| | Construction Front Panel | ABS + PC Plastic front frame |
| | | In-Wall, Wall, Stand and |
| Physical | Mounting | Arm VESA 75mm x 75mm / 100mm x 100mm |
| Filysical | Front Panel Color | Blue and White |
| | Net Weight | 2.8 kg |
| | Dimension (WxHxD) (mm) | 312 x 314 x 52 |
| | Operation Temperature (°C) | -10°C ~50°C |
| Environment | Storage Temperayure (°C) | -25°C ~ 65°C |
| | EMC | CE / FCC / CCC |
| | Safety | CB |
| Touch Screen | 1 | Resistive Type 5-Wire |
| | | (Touch controller IC is on board) |
| | | P/N: 63000-FSP0481AD101C-RS |
| Power Adapte | er | 48W Power Adapter |
| | | Input: 90VAC~264VAC, 50/60Hz |
| Dawer Dawin | | Output: 12VDC 12VDC |
| Power Requir | | 1-1-7 |
| Power Consu | mption | 39W |

Packing List

HSUPA (Optional)

| Item | P/N | Q'ty | Specifications |
|---------------------|---|------|--------------------------------|
| Touch Pen | XTR104-0002-RS | 1 | |
| Mini Jumper | 33100-000033-RS | 10 | |
| External SATA Cable | 32000-094100-RS | 1 | |
| Power Adapter | 63000-FSP0481AD101C-RS (48W Power Adapter) | 1 | 48W, 90VAC~264VAC, 50/60Hz |
| Power Cord | 32000-000002-RS | 1 | European Power Cord, 1830mm |
| Screw Kit | | 1 | |
| Utility CD-ROM | | 1 | |

EGSM 900, DCS 1800 &1900

Options

| Item | | P/N | |
|---------------|-----------|--------------------------|--|
| ARM | | ARM-11-RS / ARM-31-RS | |
| STAND | | STAND-C19 / STAND-A19 | |
| | Win CE6.0 | ACTCF-412-N270-CE060-R10 | |
| os | LINUX | ACTCF-412-N270-LNX-R10 | |
| | Win XPE | ACTCF-412-N270-XPE-R10 | |
| In-Wall Cage | | ACTIWC-412-R10 | |
| Wall Mounting | | AFLWK-12 | |

Ordering Information

| Model | Description |
|-------------------------------------|---|
| ACT-412A-N270/WT-R/1GB/**(HU01)-R10 | 12.1" 400cd/m² XGA fanless panel PC with Intel® N270 1.6GHz,802.11b/g wireless module,touch screen, MIFARE & ME RFID module,1GB DDR2 533,RoHS |

Heavy Industrial Panel PCs

IEI's rugged industrial panel PCs (PPC) all have reliable IP 65 aluminum front panels are suitable for the demands of harsh industrial environments. Powerful Intel® Core™ 2 Duo, Pentium® 4 and Pentium® M processor and AMD low power processor are integrated onto a wide range of feature-rich IEI embedded motherboards that drive the IEI industrial PPCs. Multi I/O and expansion capabilities enables you to interface your system with many external devices.









A. Industrial Aluminum Panel PCs

Compact Size

Compact size with fanless design



Slim Type

Robust Fanless/Mobile Dual Core PPCs



High Performance

Desktop Dual Core form factor with multiple expansion interfaces (PCI express/PCI / PCIe mini)



Flexible Expansion

Embedded form factor with multiple expansion interfaces (PCMCIA/PCI/mini PCI(mini PCIe)/Express Card)



| | | T | | T | | T | | T | |
|--------------------------|-------------|--|------------------|--|---|---------------|---|--|--|
| Product Line Platform | | 27-series | | 37-series | | 51- | series | 53-s | eries |
| | | AMD LX800 | Intel® 852GM | Intel® 945GME | Intel® 945GSE (ATOM) | Intel® 852GME | Intel® 945G | Intel® 855GME | Intel® 910GMLE |
| Ехра | ansion Slot | 1 x Mini PCI (Wireless LAN Module) | N/A | 1 x PCIe mini (Wireless LAN Module) | 1 x PCIe mini (Wireless LAN Module) | 1 x PCI | 1 x PCI/1 x PCIe x4 (PCIe x1 signal) 1 x PCIe mini (Wireless LAN Module) | 1 x PCI 1 x PCMCIA 1 x mini PCI (Wireless LAN Module) | 1 x Express Card 1 x PCI 1 x PCIe mni (Wireless LAN Module) |
| V | Vireless | 802.11 b/g (10.4"/12.1" Optional) | N/A | 802.11 b/g Optional | 802.11 b/g Optional | N/A | N/A | 802.11 b/g Optional | 802.11 b/g Optional |
| | | | | | Models | | | | |
| 6.5" | 640 x 480 | PPC-2706GS | | | | | | | |
| 8.4" | 800 x 600 | PPC-2708GHS | PPC-3708GHS/8522 | PPC-3708GHS/9452 | PPC-3708A/N270 Fanless | | | | |
| 10.4" | 800 x 600 | Fanless PPC-2710GHS | PPC-3710GHS/8522 | PPC-3710GHS/9452 | PPC-3710A/N270 Fanless | | | | |
| 12.1" | 1024 x 768 | Fanless PPC-2712GS | PPC-3712GXS/8522 | PPC-3712GXS/9452 | PPC-3712A/N270 Fanless PPC-3712BA/N270/890A Fanle PPC-3712BT/N270/709TX | 955 | | | |
| 15" | 1024 x 768 | | | | | PPC-5150GS | PPC-5150A | PPC-5350GS/A300 | PPC-5350GS/A311 |
| 17" | 1280 x 1024 | | | | | PPC-5170GS | PPC-5170A | | |
| 19" | 1280 x 1024 | | | | | PPC-5190GS | PPC-5190A | | |

B. Industrial Vertical Application Panel PCs











WIDS-515A/517A 15"/17" Wireless panel mount PPC

| Product Line | LCD Size | | Platform Expansion Slot | | Wireless | Models |
|-----------------|----------------|---------------|-------------------------|------------------|--------------|-----------------|
| SAILORPC Series | 12.1" | 1024 x 768 | Intel® 945GSE (ATOM) | N/A | 802.11 b/g/n | SAILOR-12A(SR) |
| LIDO Carias | 12.1" | 1024 x 768 | Intel® 910GMLE | 4 ·· DOUDOIsu4 | 802.11 b/g/n | UPC-12A(H)/910 |
| JPC Series | | | Intel® GM45 | 1 x PCI/PClex1 | | UPC-12A(H)/GM45 |
| WIDS Series | 15" 1024 x 768 | L. L. IO 0450 | 4 POL/POL4 | 000 44 5 / - / - | WIDS-515A | |
| WIDS Series | 17" | 1280 x 1024 | Intel® 945G | 1 x PCI/PClex1 | 802.11 b/g/n | WIDS-517A |

Automation Panel Solutions

2

gital gnage

Video Wall Controller

ISCased olutions

ACSmate Medical

Optional

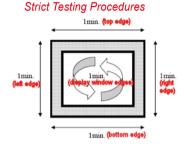
Feature 1 / IP65/IP67 Waterproof Panel PCs

The IP (ingress protection) rating system is an international standard for classifying the degrees of protection from solid objects and liquids afforded by electrical equipment and enclosures. IEI waterproof laboratory was found to have the facilities, equipment and personnel needed to conduct the waterproof tests and fully witnessed by UL International. All of the industrial panel PC products designed to be rugged, ideal for any industrial environment where dust and drizzle is encountered.

IP65 Front Panel Compliant

[IP65] Dust-Tight

[IP65] Protected against water sprayed from all directions



| | Water Flown Rate | Hose Diameter |
|------|------------------|---------------|
| IP64 | 10.0L/min | 0.5mm |
| IP65 | 12.5L/min | 6.3mm |
| IP66 | 100L/min | 12.5mm |
| UL50 | 246L/min | 25.4mm |



NEMA Enclosure Rating and IP Rating

NEMA (National Electrical Manufacturers Association) sets the industry standards in the USA for electrical equipment enclosures. The European Standards are determined by the Institute of Petroleum and are sometimes referred to as Ingress Protection (IP) numbers. The standards are listed

- IP Classification addresses the European market
- NEMA Classification addresses the American market

Full IP67 Sealed

[IP 67] Dust-Tight

[IP6 7] Temporary immersion under water 1m



IP67 Waterproof M12 Connectors

Waterproof OSD Keypad





Testing Procedures Protected against the effects of temporary immersion

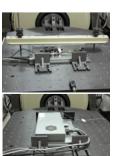
between 15 cm and 1m. Duration of test 30 minutes

Table of NEMA Enclosure Rating and Comparison to IP Code

| | Enclosure Type Number IEC | Enclosure Classification Designation |
|---|---------------------------|--------------------------------------|
| | 1 | IP 10 |
| | 2 | IP 11 |
| | 3 | IP 54 |
| | 3R | IP 14 |
| | 3S | IP 54 |
| > | 4 and 4X | IP 56 |
| | 5 | IP 52 |
| | 6 | IP 67 |
| | 12 | IP 52 |
| | 13 | IP 54 |
| | | |

Feature 2 **Rigorous Vibration and Shock Testing**

IEI rugged industrial Panel PCs follows the strict environmental testing procedures performed to ensure the panel PCcan withstand the relatively infrequent, non-repetitive shocks or transient vibration encountered in handling, transportation and service environments.



1. Vibration Testing Specifications

- Testing Standard: MIL-STD-810F 514.5C-1
- Operating Random Vibration Mode 10-500 Hz, 60min/axis. ,Equivalent to Z:1.04 Grms X:0.204 Grms Y:0.74 Grms
- Non-Operating Sine Mode 5~17Hz, 0.1" double amplitude displacement 17~640Hz, 1.5G acceleration peak to

2. Shock Testing Specifications

- Testing Standard: IEC68-2-27
- Operating Shock Half-Sine Wave Shock 3G acceleration part to part (11ms)
- Non-Operation Shock Half-Sine Wave Shock 10G acceleration part to part (11ms)



HDD with Anti-shock buffer rubber enhances protection performance.

Feature 3 / Versatile Expansion Interface

The industrial PPC with various kinds of expansion interfaces with the flexibility of functions enhancement and the ease of system integration.

| | 1. PCI Slot | 2. PCle x 1 Slot | 3. PCle mini | 4. PCMCIA | 5. Express Card | |
|--|--|--------------------------------------|--|--|--|--|
| Various Expansion Interface | | | | The state of the s | NEW! | |
| Applications | - Capture card - Wireless card - Serial card | - Video Grap - FireWire hics Card | - Wireless USB-3G broadband wireless-WiFi-GSM | - TV tuners - WLAN/WWAN/Smart Card/SATA - Bluetooth device - Memory Card Adapter | - TV tuners - WLAN/WWAN/Smart Card/SATA - Bluetooth device - Memory Card Adapter | |
| Solution Models | PPC-51xxGS PPC-51xxA WIDS-51xA PPC-5350GS/A300 PPC-5350GS/A311 | PPC-51xxA WIDS-51xA | PPC-27xxGS PPC-37xxGS/9452 PPC-37xxA/N270 PPC-5350GS/A311 | PPC-5350GS/A300 | PPC-5350/A311 | |
| PCI/PCI | le External Expansion | n Slot | Internal PCIe mini Slot | External Express Card Slot | | |
| PCI Riser Wireless PCie mini Card PCI e x 1 Riser (Optional) | | | | | | |

Feature 4 / User Friendly Interface



1. User-accessible CF

PPC has a CF slot on the bottom panel that makes installing and replacing CF cards easy.



2. Securing Your CF Card

PPC has a CF slot on the bottom panel A security door on the PPC protects the CF card from being stolen in public places.



3. Lockable Power Cord

Power plug lock keeps power cable securely in place.

4. CMOS Reset button

The CMOS reset button forces the BIOS to be reset to its default values for $\,$ the following reasons:

- ---Fast BIOS updating
- ---Hard device conflicts slows down or disrupts system operation



Restoring default system settings!



5. Selectable AT/ATX mode switch

Easily select the AT or ATX power mode with an easily accessed switch.

Production Line



unit is connected.

AT power mode allows multiple panel PCs automatically start when the central power

General Ticketing Machine (GTM)



The ATX power mode allows the panel PCs to be turned on/off remotely via network.

Industrial Vertical Application Panel PCs Selection Guide







All-in-One

3 Digital Signage

Video Wall Controller

RISCbased Solutions

ACSmate Medical

Optional Peripherals

| | C | | | | | | |
|--|--|--|---|--|--|--|--|
| Model | | SAILOR-12A(SR)-N270 | UPC-12A(H)/910 | UPC-12AH/GM45 | WIDS-515A/9455 | WIDS-517A/9455 | |
| | LCD Size | 12.1" | . , | 1" | 15" | 17" | |
| | Max Resolution | 1024 x 768 | 1024 | x 768 | 1024 x 768 | 1280 x 1024 | |
| | Brightness (cd/m²) | 400 (1000) | 450 (| 1000) | 350 | 300 | |
| | Contrast Ratio | 500 : 1 (700 : 1) | |):1 | 700 : 1 | 800 : 1 | |
| Display | LCD Color | 262K | 26 | 2K | 16.2M | 16.7M | |
| | Pixel Pitch (mm) | 0.240 (H) x 0.240 (V) | | x 0.240 (V) | 0.297 (H) x 0.297 (V) | 0.264 (H) x 0.264 (V) | |
| | Viewing Angle (V-H) | 120°/140° (120°/130°) | 160°/160° | | 125°/140° | 140°/140° | |
| | Backlight MTBF (hrs) | 60000 (50000) | | 000 | 50000 | 50000 | |
| | SBC Model | SAILORMB-945GSE-N270-R10 | UPCMB-9102-R10 | UPCMB-GM45-R10 | | | |
| Motherboard | CPU | Intel® Atom™ process N270 1.6GHz CPU | | Intel® Celeron® M processor Intel® Celeron® M processor Intel® Core 2 Duo P8400 2.26 GHz Li | | POS-9455-R11 LGA 775 Intel® Core™2 Duo / Celeron® D with a 533/800/ 1066 MHz FSB | |
| | Chipset | Intel® 945GSE + ICH7M | Intel® 910GMLE + ICH6M | Intel® GM45+ICH9M | Intel® 9450 | G + ICH7R | |
| | RAM | Supports one 400/533MHz DDRII SO-DIMM (2GB Max.) | Supports two 400/533MHz DDRII | Supports two 667/800 MHz DDRII SO-DIMM (4GB Max.) | Supports two 667 MHz DD | RII SO-DIMM (4GB Max) | |
| /O Ports and Driver Bay | Switches HDD Driver Bay SSD CD-ROM Driver Bay | 1 x 5pin M12 connector for POWER Adapter 1 x 8pin M12 connector for two USB 1 x 5pin M12 connector for CAN bus and Audio line out 1 x 8pin M12 connector for UART RS-232/422/485 1 x 8pin M12 connector for UART RS-232 1 x 8pin M12 connector for GbE LAN 1 x 2.5" SATA/IDE HDD Bay | 1 x Nemote OP's Management 1 x Remote COM port by RJ-445 cor 1 x UPS Remote Power Switch (2 p 1 x 2.5" SA1 | front Panel) DC input) Block Port by RJ-45 Ethernet nector in terminal block) TA HDD Bay CF Type II /A 1 x Wireless Lan Module (802.11 | 4 x RS-232 COM Port 2 x RJ-45 for Giga LAN 1 x RS-232/422/485 COM Port 3 x Audio (Lin-in, Line-out,MIC-in) 6 x USB 2.0 (2 waterproof USB in th 1 x CMOS reset button 2 x PS/2 (KB/MS) 1 x AT/ATX switch 1 x LPT 1 x USB switch 1 x VGA Port Slim Type C | Bay With anti-shook D-ROM Bay | |
| Extension Slo | | 1 x Wireless Lan Module (802.11 b/g/n) (internal Mini PCIe interface) | 1 x Wireless Lan Module (802.11 b/g/n) (internal Mini PCIe interface) (internal Mini PCIe interface) 1 x PCI Slot 1 x PCI by 1 Slot (Option) | | 1 x Wireless Lan Module (802.11 b/g/n) (internal Mini PCIe interface) 1 x PCI Slot 1 x PCIe by 1 Slot (Option) | | |
| | Construction Front Panel | A1 | A I | Aluminum | Harrier de | 4.041 | |
| | Construction Chasis | Aluminum | Alum | inum | Heavy-d | uly Steet | |
| | Mounting | Panel, Wall, Rack, Stand and Arm, VESA 100mm x 100mm | Panel, Wall, Rack, Stand and | Arm, VESA 100mm x 100mm | Panel, Wall, Rack, Stand and | Arm, VESA 100mm x 100mm | |
| hysical | Front Panel Color | Silver (8403C) | Orange (Pa | intone151C) | Silver (Pant | one 8001C) | |
| | Dimension (WxHxD) | | | · · · · · | · | | |
| | (mm) | 345.3 x 300.4 x 77 | 335 x 28 | 80 x 119 | 410 x 329 x 124.5 | 451.98 x 375.96 x 123 | |
| | Net Gross Weight | 4.2 Kg / 5.3 Kg | 5.8 Kg | / 6.9 Kg | 7 Kg /11 Kg | 8 Kg / 12 Kg | |
| | Operation Temperature | -10°C ~50°C | -10°C | ~55°C | -10°C | ~50°C | |
| | Storage Temperature | -20°C ~60°C | -20°C | ~60°C | -20°C | ~60°C | |
| Environment | Vibration | | 17~ | Hz, 0.1" double amplitude displacem 640Hz, 1.5G acceleration peak to pe | | | |
| | Shoock | | | 10G acceleration part to part (11ms) | | | |
| Fouch Screen | | Power Adapter - P/N: 63000-CLG60121C-RS - 60W Power Adapter - Input: 90VAC~264VAC, 50/60Hz - Output: 12VDC - M12 waterproof connector 5P | Power Adapter - P/N: 63000-FSP096AHB-RS - 96W Power Adapter - Input: 90VAC-264VAC,50/60Hz - Output: 12VDC | stive Type 5-Wire with RS-232 interfa | AC Input ATX Power Supply -PIN: ACE-A618A-RS -180W Power Supply -Input: 90 ~ 264VAC @ 50/60Hz -Output (max.): 3.3V@14A, 5V@16A, 12V@14A, -12V@0.5A DC Input ATX Power Supply -200W, -PIN: ACE-4520C-RS | AC Input ATX Power Supply - P/N: ACE-A622A-RS - 220W Power Supply - Input: 90 ~ 264VAC @ 50/60Hz - Output (max.): 3.3V@14A, 5V@16A, 12V@14A, -12V@0.8 DC Input ATX Power Supply - 200W, - P/N: ACE-4520C-RS - 200W Power Supply - Input: 24VDC @ 50/60Hz Output (max.): 3.3V@12A, 5V@12A, 12V@15.4A, -12V@0.5A | |
| | | 0.001/00 | 9~28 | BVDC | 90 ~ 264VAC or 24VDC | | |
| ower Require | ement | 9~28VDC | | | | | |
| | | 9~28VDC IP67 Compliant | | ompliant | IP65 Co | | |
| ront Panel P | | | | | IP65 Cc | | |
| Power Require Front Panel Processificate Battery | | | IP65 Co | ompliant | IP65 Cc | mpliant | |

PPC-27 Series Selection Guide









| | | | 1 | | | | | |
|-----------------|----------------------------|--|---|--|--|--|--|--|
| | | | AMD Geode L | K800 Platform | | | | |
| | Model | PPC-2706GS | PPC-2708GHS | PPC-2710GHS | PPC-2712GS | | | |
| | LCD Size | 6.5" | 8.4" | 10.4" | 12.1" | | | |
| | Max Resolution | 640(W) x 480(H) | 800(W) x 600(H) | 800(W) x 600(H) | 1024(W) x 768(H) | | | |
| | Brightness (cd/m²) | 500 | 400 | 400 | 450 | | | |
| | Contrast Ratio | 450:1 | 400:1 | 400:1 | 700:1 | | | |
| Display | LCD Color | 262K | 262K | 262K | 262K | | | |
| | Pixel Pitch (mm) | 0.069(W) x 0.207(H) | 0.213(H) x 0.213(V) | 0.264(H) x 0.264(V) | 0.240(H) x 0.240(V) | | | |
| | Viewing Angle (V-H) | 120°/140° | 100°/120° | 100°/120° | 160°/160° | | | |
| | Backlight MTBF (hrs) | 30,000 | 50,000 | 50,000 | 50,000 | | | |
| | SBC Model | WAFER-LX-800 | WAFER-LX-800 | AFLMB-LX-800 | AFLMB-LX-800 | | | |
| | CPU | AMD Geode LX800 500MHz processor | | | | | | |
| Motherboard | Chipset | | AMD Geode LX80 | 00 + AMD CS5536 | | | | |
| | RAM | | Supports one 333/400MHz | DDR SO-DIMM (1GB Max.) | | | | |
| | | 1 x RS-232 COM Port | 2 x RS-232 COM Port (One optional for Touch Screen) | 2 x RS-232 COM Port | 2 x RS-232 COM Port | | | |
| | | 2 x USB Port | 2 x USB Port | 2 x RJ-45 for 10/100Mbps LAN | 2 x RJ-45 for 10/100Mbps LAN | | | |
| | | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | 2 x USB 2.0 | 4 x USB 2.0 | | | |
| | | 2 x RJ-45 for 10/100Mbps LAN | 2 x RJ-45 for 10/100Mbps LAN | 1 x VGA Port | 1 x VGA Port | | | |
| I/O Ports and S | witches | 1 X VGA out | 1 X VGA out | 1 x Audio (Line-out) | 1 x Audio (Line-out) | | | |
| | | 1 x Audio (Line-out) | 1 x Audio (Line-in, Line-out, MIC-in) | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | | | |
| | | 1 x 12VDC input Power Jack | 1 x 12VDC input Power Jack | 1 x 12VDC input Power Jack | 1 x 12VDC input Power Jack | | | |
| | | 1 x Power Switch | 1 x Power Switch | 1 x Power Switch | 1 x Power Switch | | | |
| | | | | 1 x Reset Button | 1 x Reset Button | | | |
| | HDD Driver Bay | 1 x 2.5" SATA/IDE HDD Bay | | | | | | |
| Driver Bay | SSD | CF Type II | | | | | | |
| | CD-ROM Driver Bay | N/A | | | | | | |
| Extension Slot | | N/A | N/A | 1 x Wireless Lan 802.11 b/g Module (internal Mini PCI interface) | 1 x Wireless Lan 802.11 b/g Module (internal Mini PCI interface) | | | |
| | Construction Front Panel | Aluminum | | | | | | |
| | Construction Chasis | Heavy-duty Steel | | | | | | |
| Dhysical | Mounting | Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm | | | | | | |
| Physical | Front Panel Color | Silver (Pantone 8001C) | | | | | | |
| | Dimensions (WxHxD) (mm) | 183 x 143 x 62.6 | 244 x 178 x 67 | 311.5 x 242 x 58 | 340 x 260 x 66 | | | |
| | Net Gross Weight | 1.4 Kg / 3.4 Kg | 2.2 Kg / 4.4 Kg | 2.8 Kg / 5.5 Kg | 2.8 Kg / 5.7 Kg | | | |
| | Operation Temperature (°C) | -10°C ~50°C | | | | | | |
| | Storage Temperature (°C) | | -20°C | ~60°C | | | | |
| Environment | Vibration | | | | | | | |
| | Shoock | 17~640Hz, 1.5G acceleration peak to peak 10G acceleration part to part (11ms) | | | | | | |
| Touch Screen | | Resistive Type 4-Wire with RS-232 interface | Resistive Type 4-Wire with RS-232 interface | Resistive Type 5-Wire with RS-232 interface | Resistive Type 5-Wire with RS-232 interface | | | |
| Power Supply | | P/N: 63000-FSP060DBAB1552-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC | P/N: 63000-FSP060DBAB1552-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC" | P/N: 63000-FSP050DBAB1405-RS 48W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC | P/N: 63000-FSP050DBAB1405-RS 48W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC | | | |

Automation Panel Solutions

II-in-One ouch POS

3 ligital lignage

ideo Wall ontroller

> Ced utions

ACSmate edical

Optional

PPC-37 Series Selection Guide













| | | Into | l® 852GM Plat | form | Into | I® 945GM Plat | form |
|----------------------------|----------------------------|--|---|------------------------------------|--|---------------------------------------|--|
| | Model | PPC-3708GHS/8522 | PPC-3710GHS/8522 | PPC-3712GS/8522 | PPC-3708GHS/9452 | PPC-3710GHS/9452 | PPC-3712GXS/9452 |
| | LCD Size | 8.4" | 10.4" | 12.1" | 8.4" | 10.4" | 12.1" |
| | Max Resolution | 800(W) x 600(H) | 800(W) x 600(H) | 1024(W) x 768(H) | 800(W) x 600(H) | 800(W) x 600(H) | 1024(W) x 768(H) |
| | Brightness (cd/m²) | 400 | 400 | 450 | 400 | 400 | 450 |
| | Contrast Ratio | 400 : 1 | 400 : 1 | 700 : 1 | 400 : 1 | 400 : 1 | 700 : 1 |
| Display | LCD Color | 262K | 262K | 262K | 262K | 262K | 262K |
| | | | | | | | |
| | Pixel Pitch (mm) | 0.213(H) x 0.213(V) 100° / 120° | 0.264(H) x 0.264(V) 100° / 120° | 0.240(H) x 0.240(V) 160° / 160° | 0.213(H) x 0.213(V) | 0.264(H) x 0.264(V) 100° / 120° | 0.240(H) x 0.240(V) 160° / 160° |
| | Viewing Angle (V-H) | | | | 100° / 120° | | |
| | Backlight MTBF (hrs) | 50,000 | 50,000 | 50,000 NANO-8522 | 50,000 | 50,000 | 50,000 |
| | SBC Model | NANO-8522 Socket 479 2 1GHz (ma | NANO-8522 ax.) Intel® Pentium® M / Ce | | NANO-9452 Socket M Int | NANO-9452 tel® Core™2 Duo, Core Du | NANO-9452 |
| Motherboard | CPU | | 0 MHz Intel® Celeron® zer | | with 667MH | z FSB Intel® Celeron® M 5 | |
| | Chipset | Cumparta ana | | MM (4CD May) | | | |
| | RAM | Supports one | 266/200MHz DDR SO-DIN | 3 x RS-232 COM Port | Supports one 400 | 0/533/667 MHz DDRII SO- | ымм (т <u>ав</u> мах.) |
| | | 2 x RS-232 COM Port | 2 x RS-232 COM Port | (One optional for Touch Screen) | 2 x RS-232 COM Port | 2 x RS-232 COM Port | 2 x RS-232 COM Port |
| | | 1 x RS-232 | 2 COM Port(Alternative to I | RS-422/485) | 1 x RS-232 | 2 COM Port(Alternative to | RS-422/485) |
| | | 1 x RJ-45 for LAN Port | 1 x RJ-45 for LAN Port | 1 x RJ-45 for LAN Port | 2 x RJ-45 for LAN Port | 2 x RJ-45 for LAN Port | 2 x RJ-45 for LAN Port |
| | | 4 x USB 2.0 | 4 x USB 2.0 | 4 x USB 2.0 | 2 x USB 2.0 | 2 x USB 2.0 | 2 x USB 2.0 |
| | | 1 x VGA Port | 1 x VGA Port | 1 x VGA Port | 1 x VGA Port | 1 x VGA Port | 1 x VGA Port |
| I/O Ports and S | Switches | 1 x / | 1 x Audio (Line-in, Line-out, MIC-in) 1 x Audio (Line-in, Line-out, MIC-in) | | | | C-in) |
| | | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) |
| | | 1 x 12VDC inp | out Power Jack | 1 x LPT | • | 1 x 12VDC input Power Jac | k |
| | | 1 x Power Switch | 1 x Power Switch | 1 x 12VDC input Power Jack | 1 x Power Switch | 1 x Power Switch | 1 x Power Switch |
| | | 1 x 9~36VDV input Te | rminal block (Optional) | 1 x Power Switch | 1 x 9~36 | VDV input Terminal block (| Optional) |
| | | 1 x 9~36VDV input Terminal block (Optional) | | | | | |
| | HDD Driver Bay | 1 x 2.5" SATA/IDE HDD Bay | | | 1 x 2.5" SATA/IDE HD | DD bay with anti-shook | 1 x 2.5" SATA/IDE HDD bay with anti-shook |
| Driver Bay | SSD | | | CF T | ype II | | |
| | CD-ROM Driver Bay | N | I/A | Slim Type CD-ROM Bay | | /A | Slim Type CD-ROM Bay |
| Extension Slot | | N/A 1 x Wireless Lan 802.11 b/g Module (internal Mini PCIe interface) Aluminum | | | | | |
| | Construction Front Panel | | | | | | |
| | Construction Chasis | Heavy-duty Steel | | | | | |
| Physical | Mounting | Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm | | | | | |
| , | Front Panel Color | | | Silver (Pan | tone 8001C) | | |
| | Dimension (WxHxD) (mm) | 243.57 x 78 x 75.2 | 311.5 x 242 x 77.8 | 340 x 260 x 73.4 | 243.57 x 78 x 75.2 | 311.5 x 242 x 77.8 | 340 x 260 x 73.4 |
| | Net Gross Weight | 2.2 Kg / 4.4 Kg | 3.4 Kg / 5.8 Kg | 6 Kg / 8 Kg | 2.2 Kg / 4.4 Kg | 3.4 Kg / 5.8 Kg | 6 Kg / 8 Kg |
| | Operation Temperature (°C) | | | -10°C | ~50°C | | |
| | Storage Temperature (°C) | | | -20°C | ~60°C | | |
| Environment | Vibration | | | 5~17Hz, 0.1" double a | implitude displacement | | |
| | | 17~640Hz, 1.5G acceleration peak to peak 10G acceleration part to part (11ms) | | | | | |
| | Shoock | Resistive Type 4-Wire | Resistive Type 5-Wire | Resistive Type 5-Wire | Resistive Type 4-Wire | Resistive Type 5-Wire | Resistive Type 5-Wire |
| Touch Screen Power Supply | | with RS-232 interface For BGA Model - P/N: 63000-FSP060DBA - 60W Power Adapter - Input: 90VAC~264VAC,5 - Output: 12VDC For Socket Model - P/N: 63000-FSP084DMI - 84W Power Adapter - Input: 90VAC~264VAC,5 - Output: 12VDC | with RS-232 interface AB1554-RS 60/60Hz BA1308-RS | with RS-232 interface | with RS-232 interface Power Adapter - P/N: 63000-FSP084DME - 84W Power Adapter - Input: 90VAC~264VAC,5 - Output: 12VDC" | with RS-232 interface BA1308-RS | with RS-232 interface |
| | | | | | | | |

1-108

PPC-37 Series Selection Guide









| | | | | TM PL-46 | | | | | |
|---------------------|----------------------------|---|---|--|---|--|--|--|--|
| | | | Intel® Atom | | | | | | |
| | Model | PPC-3708A/N270 | PPC-3710A/N270 | PPC-3712A/N270 | PPC-3712B/N270 | | | | |
| | LCD Size | 8.4" | 10.4" | 12.1" | 12.1" | | | | |
| | Max Resolution | 800(W) x 600(H) | 800(W) x 600(H) | 1024(W) x 768(H) | 1024(W) x 768(H) | | | | |
| | Brightness (cd/m²) | 400 | 400 | 450 | 450 | | | | |
| Display | Contrast Ratio | 400 : 1 | 400 : 1 | 700 : 1 | 700 : 1 | | | | |
| | LCD Color | 262K | 262K | 262K | 262K | | | | |
| | Pixel Pitch (mm) | 0.213(H) x 0.213(V) | 0.264(H) x 0.264(V) | 0.240(H) x 0.240(V) | 0.240(H) x 0.240(V) | | | | |
| | Viewing Angle (V-H) | 100° / 120° | 100° / 120° | 160° / 160° | 160° / 160° | | | | |
| | Backlight MTBF (hrs) | | | | | | | | |
| | SBC Model | NANO-945GSE-N270 | | | | | | | |
| Motherboard | CPU | | Intel® Atom™ process N270 1.6GHz CPU | | | | | | |
| | Chipset | | | | | | | | |
| | RAM | | Supports one 400/533MHz E | DDRII SO-DIMM (2GB Max.) | | | | | |
| | | 2 x RS-232 COM Port | 2 x RS-232 COM Port | 2 x RS-232 COM Port | 2 x RS-232 COM Port | | | | |
| | | | 1 x RS-232 COM Port(A | Iternative to RS-422/485) | | | | | |
| | | 2 x RJ-45 for LAN Port | 2 x RJ-45 for LAN Port | 2 x RJ-45 for LAN Port | 2 x RJ-45 for LAN Port | | | | |
| | | 2 x USB 2.0 | 2 x USB 2.0 | 2 x USB 2.0 | 4 x USB 2.0 | | | | |
| I/O Ports and S | witches | 1 x VGA Port | 1 x VGA Port | 1 x VGA Port | 1 x VGA Port | | | | |
| I/O F OI IS AIIU S | witches | 1 x Audio (Line-in, Line-out, MIC-in) | 1 x Audio (Line-in, Line-out, MIC-in) | 1 x Audio (Line-in, Line-out, MIC-in) | 1 x Audio (Line-in, Line-out, MIC- | | | | |
| | | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | | | | |
| | | 1 x 12VDC input Power Jack | 1 x 12VDC input Power Jack | 1 x 12VDC input Power Jack | | | | | |
| | | 1 x Power Switch | 1 x Power Switch | 1 x Power Switch | | | | | |
| | | 1 x 9~36VDV input Terminal block (Optional) | 1 x 9~36VDV input Terminal block (Optional) | 1 x 9~36VDV input Terminal block (Optional) | | | | | |
| | HDD Driver Bay | 1 x 2.5" SATA/IDE HDD Bay With anti-shook | | | | | | | |
| Driver Bay | SSD | | CF Ty | /pe II | | | | | |
| | CD-ROM Driver Bay | N/A | N/A | Slim Type CD-ROM Bay | Slim Type CD-ROM Bay | | | | |
| Extension Slot | | | 1 x Wireless Lan 802.11 b/g Mod | ule (internal Mini PCIe interface) | | | | | |
| | Construction Front Panel | Aluminum | | | | | | | |
| | Construction Chasis | Heavy-duty Steel | | | | | | | |
| | Mounting | Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm | | | | | | | |
| Physical | Front Panel Color | | Silver (Panti | | | | | | |
| | Dimension (WxHxD) (mm) | 243.57 x 78 x 75.2 | 311.5 x 242 x 77.8 | 340 x 260 x 73.4 | 340 x 260 x 73.4 | | | | |
| | Net Gross Weight | 2.2 Kg / 4.4 Kg | 3.4 Kg / 5.8 Kg | 6 Kg / 8 Kg | 6.2 Kg / 8.2 Kg | | | | |
| | Operation Temperature (°C) | | -10°C · | | 5.2.19. 5.2.19 | | | | |
| | Storage Temperature (°C) | | -20°C · | | | | | | |
| Environment | Vibration | | "5~17Hz, 0.1"" double a | amplitude displacement | | | | | |
| | | 17-640Hz, 1.5G acceleration peak to peak" 10G acceleration part to part (11ms) | | | | | | | |
| Shoock Touch Screen | | Resistive Type 4-Wire | Resistive Type 5-Wire | Resistive Type 5-Wire | Resistive Type 5-Wire | | | | |
| Power Supply | | - P/I - 60 - Inp | with RS-232 interface with RS-232 interface ower Adapter P/N: 63000-FSP060DBAB1554-RS 60W Power Adapter nput: 90VAC~264VAC, 50/60Hz Output: 12VDC" | | with RS-232 interface For AT AC Input Model: - PN: ACE-890A-RS - 86W Power Supply - Input: 90VAC ~ 264VAC - Output: 12VDC" For ATX DC Input Model: - PN: ACE-709TX-RS - 90W Power Supply - Input: 36VDC ~ 72VDC - Output: 12VDC | | | | |

Automation Panel Solutions

deo Wall

SCsed olutions

ACSmate edical

Optional

PPC-51 Series Selection Guide

Automation Panel Solutions

All-in-One Touch POS

3 Digital Signage

Video Wall Controller

RISCbased Solutions

ACSmate Medical

Optional Peripherals

| Model | | In <u>te</u> | ® 852GM Plat | form | Inte | el® 945G Platfo | orm | |
|---------------------|-----------------------------|--|---|---|---|---|---|--|
| | | PPC-5150G | PPC-5150G PPC-5170G PPC-5190G P | | PPC-5150A | PPC-5150A PPC-5170A PPC-5190A | | |
| | LCD Size | 15" | 17" | 19" | 15" | 17" | 19" | |
| | Max Resolution | 1024(W) x 768(H) | 1280(W) x 1024(H) | 1280(W) x 1024(H) | 1024(W) x 768(H) | 1280(W) x 1024(H) | 1280(W) x 1024(H) | |
| | Brightness (cd/m²) | 350 | 300 | 300 | 350 | 300 | 300 | |
| | Contrast Ratio | 700 : 1 | 800 : 1 | 700 : 1 | 700 : 1 | 800 : 1 | 700 : 1 | |
| Display | LCD Color | 16.2M | 16.7M | 16.7M | 16.2M | 16.7M | 16.7M | |
| | Pixel Pitch (mm) | 0.297(H) x 0.297(V) | 0.264(H) x 0.264(V) | 0.294(H) x 0.294(V) | 0.297(H) x 0.297(V) | 0.264(H) x 0.264(V) | 0.294(H) x 0.294(V) | |
| | Viewing Angle (V-H) | 125° / 140° | 160° / 160° | 160° / 170° | 125° / 140° | 160° / 160° | 160° / 170° | |
| | | 120 / 140 | 100 7 100 | | 000 | 100 7 100 | 100 7 170 | |
| Backlight MTBF (hrs | | | DOS 8520 | 50, | 000 | DOS 0455 | | |
| | CPU | Socket 479 Intel® D | POS-9455 POS-9455 | | | | | |
| Motherboard | | Socket 476 Intel® P | Socket 478 Intel® Pentium® 4, Celeron M with 533MHz(max.) FSB LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1 | | | | | |
| | Chipset | | Intel 852GME + ICH5 | 0 | Intel® 945G + ICH7R | | | |
| | RAM | | o 266/333MHz DDR DIMM | · / | | 00/533/667MHz DDRII DII | | |
| | | 4 x RS-232 COM Port | 4 x RS-232 COM Port | 4 x RS-232 COM Port | 4 x RS-232 COM Port | 4 x RS-232 COM Port | 4 x RS-232 COM Port | |
| | | | 1 x RS-232/422/485 Port | | 1 x RS-232/422/485 Port | | | |
| | | 2 x RJ-45 for LAN Port | 2 x RJ-45 for LAN Port | 2 x RJ-45 for LAN Port | 2 x RJ-45 for LAN Port | 2 x RJ-45 for LAN Port | 2 x RJ-45 for LAN Port | |
| | | 4 x USB 2.0 | 4 x USB 2.0 | 6 x USB 2.0 | 4 x USB 2.0 | 4 x USB 2.0 | 6 x USB 2.0 | |
| I/O Ports and S | witches | 1 x VGA Port | 1 x VGA Port | 1 x VGA Port | 1 x VGA Port | 1 x VGA Port | 1 x VGA Port | |
| no i orto una o | whones | 1 x Audio (Line-in, Line- out, MIC-in) | 1 x Audio (Line-in, Line- out, MIC-in) | 1 x Audio (Line-in, Line- out, MIC-in) | 1 x Audio (Line-in, Line- out, MIC-in) | 1 x Audio (Line-in, Line- out, MIC-in) | 1 x Audio (Line-in, Line- out, MIC-in) | |
| | | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | 1 x PS/2 (KB/MS) | |
| | | 1 x Power Switch | 1 x Power Switch | 1 x Power Switch | 1 x Power Switch | 1 x Power Switch | 1 x Power Switch | |
| | | 1 x PCI Slot | 1 x PCI Slot | 1 x PCI Slot | 1 x AT / ATX Switch | 1 x AT / ATX Switch | 1 x AT / ATX Switch | |
| | | 1 X LPT | | | 1 x PCI Slot | 1 x PCI Slot | 1 x PCI Slot | |
| | HDD Driver Bay | 1 x 2.5" SATA/IDE HDD bay with anti-shock | | | | | | |
| Driver Bay | SSD | (or two 2.5" SATA/IDE HDD bay without anti-shock) CF Type II | | | | | | |
| · | CD-ROM Driver Bay | | | | D-ROM Bay | | | |
| Extension Slot | ob nom binoi buj | | 1 v DCL alat | S 1, pe S | z nem zaj | 1 x PCI slot | | |
| Extension 5iot | 0 5 . 5 . 1 | 1 x PCI slot 1 x PCIe mini card | | | | | | |
| | Construction Front Panel | | | | ninum | | | |
| | Construction Chasis | Heavy-duty Steel Panel, Wall, Rack, Stand and Arm | | | | | | |
| Physical | Mounting | | | | nm x 100mm | | | |
| yoloui | Front Panel Color | Silver (Pantone 8001C) | | | | | | |
| | Dimension (WxHxD) (mm) | 410 x 309 x 110.5 | 452 x 356 x 115 | 483 x 399 x 115.2 | 410 x 309 x 110.5 | 452 x 356 x 115 | 483 x 399 x 115.2 | |
| | Net Gross Weight | 7 Kg / 11 Kg | 8 Kg / 12 Kg | 12.6 Kg / 18.2 Kg | 7 Kg / 11 Kg | 8 Kg / 12 Kg | 12.6 Kg / 18.2 Kg | |
| | Operation Temperature | | | -10°C | ~50°C | | | |
| | (°C) Storage Temperature | | | -30°C | ~60°C | | | |
| Environment | (°C) | | | | amplitude displacement | | | |
| | Vibration | | | | eleration peak to peak | | | |
| | Shoock | | | 10G acceleration | part to part (11ms) | | | |
| Touch Screen | | | | Resistive Type 5-Wire | with RS-232 interface | | | |
| Power Supply | ATX AC-Input | AC Input ATX Power Supply - P/N: ACE-4518AP-RS - 180W Power Supply - Input: 90VAC-240VAC, 50/60Hz - Output(max.): 3.3A@16.8A, 5V@12A, 12V@10A, -12V@0.8A | | | AC Input ATX Power Supply - P/N: ACE-A618A-RS - 180W Power Supply - Input: 90VAC-264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@14A, -12V@0.5A | AC Input ATX Power Su - P/N: ACE-A622A-RS - 220W Power Supply - Input: 90VAC~264VAC - Output(max.): 3.3A@1 -12V@0.8A | | |
| | ATX DC-Input | DC Input ATX Power Supply - P/N: ACE-4520C-RS - 200W Power Supply - Input: 24VDC, 50/60Hz - Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A | | | | | | |

PPC-53 Series Selection Guide





Intel® 855GME Platform Intel® 910GMLE Platform Model PPC-5350GS/A300 PPC-5350GS/A311 LCD Size 15" Max Resolution 1024(W) x 768(H) Brightness (cd/m²) 350 Contrast Ratio 700 : 1 Display LCD Color 16.2M Pixel Pitch (mm) 0.297(H) x 0.297(V) 125° / 140° Viewing Angle (V-H) Backlight MTBF (hrs) 50,000 SBC Model A300 A311 Socket 479 Intel® Pentium® 4, Celeron® M with 400MHz(max.) FSB1 GHz ULV Intel® Celeron® zero cache CPU Socket 479 Intel® Pentium® M, Celeron® M with 400/533MHz(max.) FSB1 GHz ULV Intel® Celeron® zero cache CPU CPU Motherboard Chipset Intel 855GME + ICH4 910GMLF + ICH6M Supports two 266/333MHz DDR DIMM (2GB Max.) Supports two 400/533MHz DDRII DIMM (2GB Max.) RAM 5 x RS-232 COM Port 5 x RS-232 COM Port 2 x RJ-45 for LAN Port 2 x RJ-45 for LAN Port 4 x USB 2.0 4 x IISB 2 0 1 x VGA Port 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x Audio (Line-in, Line-out, MIC-in) I/O Ports and Switches 1 x PS/2 (KB/MS) 1 x PS/2 (KB/MS) 1 x Power Switch 1 x Power Switch 1 x AT / ATX Switch 1 x AT / ATX Switch 1 x DVI port 1 x DVI port 1 x PCI Slot 1 x PCI Slot 1 x 2.5" SATA/IDE HDD bay with anti-shook HDD Driver Bay Driver Bay CF Type II CD-ROM Driver Bay Slim Type CD-ROM Bay 1 x PCI slot 1 x PCI slot Extension Slot 1 x PCle mini card Construction Front Panel Aluminum Construction Chasis Heavy-duty Steel Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm Mounting Physical Front Panel Color Silver (Pantone 8001C) 410 x 309 x 110.5 Dimension (WxHxD) (mm) Net Gross Weight 8 Kg / 12 Kg 7 Kg / 11 Kg Operation Temperature (°C) -10°C ~50°C Storage Temperature (°C) -20°C ~60°C Environment 5~17Hz, 0.1" double amplitude displacement 17~640Hz, 1.5G acceleration peak to peak Vibration Shoock 10G acceleration part to part (11ms) Touch Screen Resistive Type 5-Wire with RS-232 interface AC Input ATX Power Supply - P/N: ACE-4518AP-RS ATX AC-Input - 180W Power Supply - Input: 90VAC~240VAC, 50/60Hz - Output(max.): 3.3A@16.8A, 5V@12A, 12V@10A, -12V@0.8A Power Supply DC Input ATX Power Supply P/N: ACE-815C-RS ATX DC-Input - 100W Power Supply - Input: 24VDC, 50/60Hz

Automation Panel Solutions

- Output(max.): 3.3A@4A, 5V@13A, 12V@2.5A, -12V@0.3A

SAILORPC-12A 12.1" Full IP67 Panel PC

The rugged SAILORPC-12A panel PC based on Intel's Atom processor is designed in a very robust and waterproof (IP 67/NEMA 6) in aluminum housing. Withstanding even the highest demands of all-day field use, and protected against shock and vibration permitting extremely flexible integration into a wide variety of applications, such as: avionics, military, marine, mining,















Features:

• 12.1" 1000 nits super high brightness TFT LCD available

COMPUTEX TAIPEI 2009

BEST CHOICE

- IP67 (NEMA 6) fully-enclosed aluminum die casting enclosure and IP67 waterproof lockable I/O
- Fanless system integrated with Intel® Atom™ N270 1.6G processor for ultra Low voltage
- Supports one 2.0 GB (max.) 400/533 MHz MHz DDR2 SO-DIMM
- Built-in internal WiFi antenna supports 802.11 b/g/n high standard
- One Compact Flash® Type II socket
- CAN-Bus interface for automotive applications

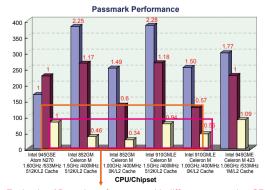
 Ambient light sensor detects ambient light for automated screen adjustments to optimize viewing. (Advanced Deep Dimming to Black for sunlight readable model)

- Touch Screen
- Standard VESA 75/100 compliance
- Panel mounting support
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)



Invisible Antenna Inside Ambient Light Sensor System Power On/Off OSD Adjustment: - LCD On/Off - Brightness Up - Brightness Down Speaker Volume Up - Speaker Volume Down Ambient Light Sensor On/Off

Rugged Panel PC with Fanless Intel® Atom™ Processor



The fanless intelligent display computer, SAILOR-12A, is using 45 nm Intel® Atom ™ processor with up to 1.6 GHz frequency and can be used in harsh and safetycritical applications in transport, avionics, engineering or industrial automation.

Better graphic performance is excellent for:kiosk, self-service terminal, and digital signage applications



Evaluating 3D mark performance with different generation CPU and chipset combination, Intel® Atom™ processor is the best solution for low power consumption and better graphic performance choice



IP67 Fully-Enclosed Design

The SAILORPC-A12 is designed by front sealing and test in the certified house chamber under UL's witnessed Test Data Program (TDP). IEI is following the IP67 standard testing procedures, This full IP67 touch monitor provides full IP67 protection including connectors, cables and Touch.

[IP67] Dust-Tight

First Digit The first digit indicates the level of protection that the enclosure provides against access to hazardous parts

| Level | Effective Against |
|-------|---|
| 6 | No ingress of dust; complete protection against contact |

Sealing enclosure with all sides of IP67!





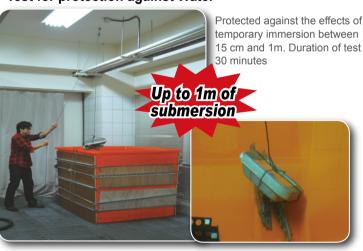
[IP67] Temporary immersion under water 1m

Second Digit Protection of the equipment inside the enclosure against harmful ingress of water

| Level | | Effective Against |
|-------|-----------------|--|
| 6 | 2.5~3m 1002 min | Water projected in powerful jets against the enclosure form any direction shall have no harmful effects |
| 7 | 100 | Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1mof submersion) |

IPX7 Test

· Test for protection against Water



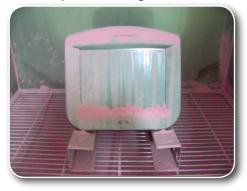
Air Flow Test

Air pressure measurement is used as the IP67 test method, the air flow tester is capable of detecting leaks in product and evaluates the pass/fail status of the watertight system.



IP6X Test

• Test for protection against Dust







Sunlight Readable

Super High Brightness

SAILORPC-12ASR (Sunlight Readable Model) has greatly improved luminance through edge lighting to achievesuper high brightness (up to 1000 cd/m²).

Low Reflection through AR (Anti-Reflection) Technology

Outdoor applications in daylight or other bright environments require technology that can suppress surface reflection. SAILORPC-12ASR sunlight readable model offer special AR (anti-reflection) surface treatment to prevent reflection, which ensures excellent visibility in daylight conditions.



Super High Brightness: 1000 nits

High Contrast: 700:1

Wide Viewing Angle: 60/60 (R/L) 45/75 (U/D)

Ambient Light Sensor

The SAILORPC-12A built in the ambient light sensor in front of the panel to automatically detect the amount of light in the viewing environment and auto-adjusts the brightness of the screen.

- Avoid eye strained and tried, to provide comfortable viewing
- Power consumption saving
- Extend lamp lifetime



Adjust to maximum 1000 nits Sunlight Readable automatically



Panel brightness autoadjustment depends on the ambient light amount to save the system power



Adjust to acceptable brightness automatically in a insufficient light ambient



Uninterrupted Wireless Connection

The SAILORPC-12A series featuring high speed WiFi IEEE 802. n protocol which builds on previous 802. standards by adding multipleinput multiple-output (MIMO) and 40 MHz operation to the physical (PHY) layer. MIMO uses multiple transmitter and receiver antennas to improve the system performance.





27 times faster data transfer rate compared to 802.11b

| Protocol | Freq. | Thru. | Data | Range indoor | Range outdoor |
|----------|--------------------------|----------|---------------------------|--------------|---------------|
| 802.11 | (GHz) | (Mbit/s) | (Mbit/s) | (m) | (m) |
| а | 5 GHz | 23 | 54 Mbit/s | ~35 | ~120 |
| b | 2.4 GHz | 4.3 | 11 Mbit/s | ~38 | ~140 |
| g | 2.4 GHz | 19 | 54 Mbit/s | ~38 | ~140 |
| n | 5 GHz and/ or 2.4 GHz | 74 | 300 Mbit/s (2 streams) | ~70 | ~250 |

802.11b/g Wi-Fi, which gives you up to broadband-speed browsing and connectivity, compared to traditional wired LAN.

The benefits here:

- Simple configuration
- · Without hinders worker movement
- · Without lessens man-hour productivity
- · Without additional purchase of proprietary cables for specific devices
- Without the barrier to space



Access to email, instant image and the Internet



Streaming music Streaming video



VoIP /Gaming /NAS

Rigid mechanical spec.



CAN-Bus Automotive Applications

The SAILORPC-12A is equipped with automotive applied CAN-Bus interface. The Control Area Network (CAN) is a serial bus system, originally developed by Bosch for use in automobiles, and now is increasingly being used for control in industrial and automotive applications

Controller Area Network

- 1Mb/s data rate
- · High reliability bus
- · CAN is an open standard with many variants
- Is capable of providing real-time communication.

CAN in cars and truck engine

- · Networking controllers for engine timing, transmission, chassis and brakes.
- · Networking components of chassis electronics and electronics which make the vehicle more comfortable. Examples of such multiplex applications are lighting control, air-conditioning, central locking and seat and mirror adjustment.





Via M12 Connector



























Reliable Die-Casting Aluminum Chassis

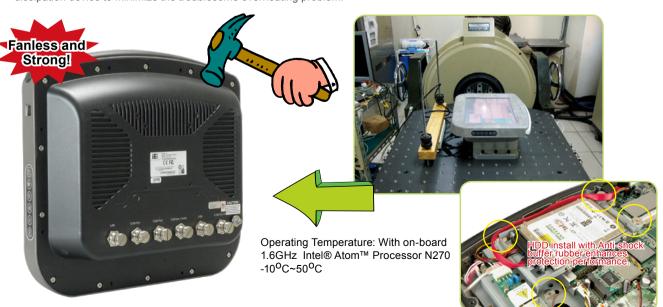
These ruggedized LCD products are also designed for high reliability, shock and vibration tolerance, survival of high temperature, and corrosive environments. External materials like dust/ water can be very destructive to any type of equipment over time.

• Fanless and Completely Sealed Strong Housing

Sealed housing strictly avoids the water invasion and the rugged diecast aluminum enclosure helps the need for using a fan as a heat dissipation device to minimize the troublesome overheating problem.

• Rigorous Shock/Vibration Test

Compliant with MIL-STD-810F shock and vibration protection, as well as offering IP67 water and dust proof front panel protection.



Dedicated Applications

• High Brightness Marine Panel PC

Transmission









1000 nits Sunlight Readable!

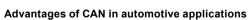
0%~100% brightness control for Navigation Safety!

We Offer:

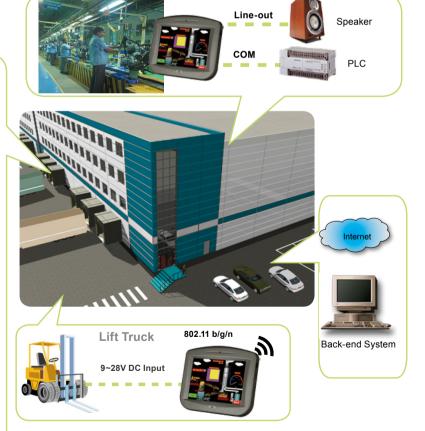
- Transflective technology super high brightness 1000 nits enhance visibility
- Intel® ATOM Platform, Fanless Design
- Dimming keypad control backlight brightness from nearly 0% to 100%
- · Ease of use front panel OSD control
- Enhanced shock and vibration resistance
- Touch Screen Capable
- · Panel mounting support

Logistics and Warehousing





- · Lower cost at vehicle construction
- Facilitates drive by wire which reduces cost further
- · Enhances debug at point of service



- Wireless functions can also be implemented via a PCIe mini card slot in
- · combination with an internal antenna.
- Designed for automotive applications featuring built in CAN-Bus interface

1-116

ideo Wall ontroller

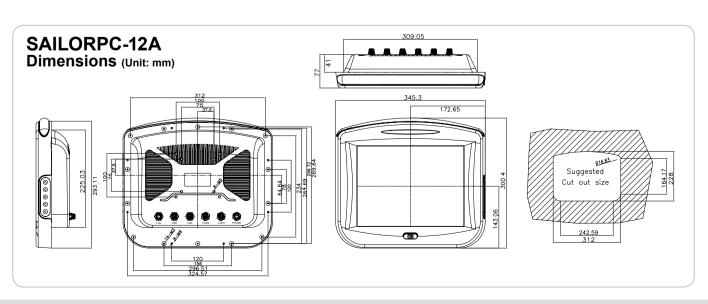
> Ced utions

6 ACSmate edical

Optional

Specifications

| Model | | SAILORPC-12A-N270 | SAILORPC-12ASR-N270 | |
|-------------|-----------------------------|--|----------------------------|--|
| | LCD Size | 12.1" | | |
| | Max Resolution | 1024 3 | * 768 Sunlight | |
| | Brightness (cd/m2) | 400 | 1000 Readable | |
| Dianley | Contrast Ratio | 500:1 | 700:1 | |
| Display | LCD Color | 262K | 262K | |
| | Pixel Pitch (mm) | 0.240(H) x 0.240(V) | 0.240(H) x 0.240(V) | |
| | Viewing Angle (H-V) | 160°/160° | 130°/120° | |
| | Backlight MTBF (hrs) | 50000 | 60000 | |
| | SBC Model | SAILORMB- | ATOM-R10 | |
| Motherboard | CPU | Intel® Atom™ process | s N270 1.6GHz CPU | |
| Motherboard | Chipset | Intel® 945GSE + ICH7M | Intel® 945GSE + ICH7M | |
| | RAM | Supports one 400/533MHz D | DDRII SO-DIMM(2GB Max.) | |
| | | 1 x 5pin M12 connector | r for POWER Adapter | |
| | | 1 x 8pin M12 conne | ector for two USB | |
| | I/O Ports and Switches | 1 x 5pin M12 connector for C | CAN bus and Audio line out | |
| | " o i o i o and o miones | 1 x 8pin M12 connector fo | | |
| | | 1 x 8pin M12 connect | or for UART RS-232 | |
| | | 1 x 8pin M12 connector for GbE LAN | | |
| Driver Bay | HDD Driver Bay | 1 x 2.5" SATA HDD Bay | | |
| , | SSD | CF Ty | | |
| | Extension Slot | 1 x Wireless Lan Mo (internal PCIe mir | | |
| | Construction Front Panel | Alumi | num | |
| | Construction Chasis | Heavy-du | ıty Steel | |
| Physical | Mounting | Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm | | |
| Tilyoloui | Front Panel Color | Silver (Pantone 8403C) | | |
| | Dimension (WxHxD) (mm) | 345.3 x 300.4 x 77 | | |
| | Net Gross Weight | 4.2 Kg / 5.3 Kg | | |
| | Operation Temperature (°C) | -10°C ~50°C | -10°C ~50°C | |
| Environment | Storage Temperature (°C) | -20°C ~70°C | -20°C ~70°C | |
| Environment | Vibration | 5~17Hz, 0.1"" double ar 17~640Hz, 1.5G accel | | |
| | Shoock | 10G acceleration part to part (11ms) | | |
| | Touch Screen | Resistive Type 5-Wire | with RS-232 interface | |
| | Power Supply | Power Adapter - P/N: 63000-CLG60121C-RS - 60W Power Adapter - Input: 90VAC~264VAC, 50/60Hz - M12 waterproof connector 5P | | |
| | Power Requirement | 9~28VDC | | |
| | Front Panel Protection | IP67 Co | · | |
| | Power Consumption | 33W 51W | | |
| | Certificate | Meets CE, FC | C, CB, CCC | |

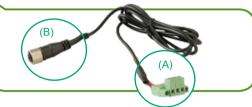


Packing List

| Item | Part Number | Q'ty | Specifications |
|-------------------------|-----------------|------|--|
| Panel mount screws Pack | 44013-030041-RS | 1 | |
| Power cable | 32000-127500-RS | 1 | 2000mm;16AWG; (A) terminal block connector; (B) M12 Waterproof connector |
| Utilities CD | 7B000-000087-RS | 1 | |
| Touch Pen | XTR104-0002-RS | 1 | |

Options

| Model | | SAILORPC-12A(SR)-N270 | | |
|-------|---------------------|--------------------------|--|--|
| | Wall mounting kit | AFLWK-12 | | |
| | "Rack mounting kit" | SAILORRK-12 | | |
| | ARM | ARM-11-RS / ARM-31-RS | | |
| | Stand | STAND-A12 / STAND-100-RS | | |



Optional cables and adapter

| Item | Part Number |
|---------------------------------------|--------------------|
| USB cable | CB-M12USB02-R10 |
| RJ45 LAN cable | CB-M12RJ45-R10 |
| DB-9 COM port cable | CB-M12COM-R10 |
| DB-9 CAN bus and AUDIO line-out cable | CB-M12ACAN-R10 |
| AUDIO line-out cable | CB-M12AUDIO-R10 |
| Water-proof Power Adapter | 63000-CLG6012IC-RS |







USB cable

RJ45 LAN cable

DB-9 COM port cable







DB-9 CAN bus and AUDIO line-out cable

AUDIO line-out

Water-proof Power Adapter

Ordering Information

| Brightness | os | Part Number | Description | |
|------------|--------|---|--|--|
| | CE 6.0 | SAILORPC-12A-N270/WT-R/1G/1G-CE6-R10 | 12.1" 400 cd/m² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module,touch screen,1GB DDR2 553 MHz, M12 connectors and 1GB compact flash with Windows CE 6.0 operaintg system | |
| | XPE | SAILORPC-12A-N270/WT-R/1G/4G-XPE-R10 | 12.1" 400 cd/m² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module,touch screen,1GB DDR2 553 MHz, M12 connectors and 4GB compact flash with Windows XP Embedded operaintg system | |
| 400 NITS | APE | SAILORPC-12A-N270/WT-R/1G/80G-XPE-R10 | 12.1" 400 cd/m² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module,touch screen,1GB DDR2 553 MHz, M12 connectors and 80GB SATA HDD with Windows XP Embedded operaintg system | |
| | LINUX | SAILORPC-12A-N270/WT-R/1G/4G-LNX-R10 | 12.1" 400 cd/m² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module,touch screen,1GB DDR2 553 MHz, M12 connectors and 4GB compact flash with LINUX operaintg system | |
| | LINOX | SAILORPC-12A-N270/WT-R/1G/80G-LNX-R10 | 12.1" 400 cd/m² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module,touch screen,1GB DDR2 553 MHz, M12 connectors and 80GB SATA HDD with LINUX operaintg system | |
| | CE 6.0 | SAILORPC-12ASR-N270/WT-R/1G/1G-CE6-R10 | 12.1" 1000 cd/m² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module,touch screen,1GB DDR2 553 MHz, M12 connectors and 1GB compact flash with Windows CE 6.0 operaintg system | |
| | XPE | SAILORPC-12ASR-N270/WT-R/1G/4G-XPE-R10 | 12.1" 1000 cd/m² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module,touch screen,1GB DDR2 553 MHz, M12 connectors and 4GB compact flash with Windows XP Embedded operaintg system | |
| 1000 NITS | AFE | SAILORPC-12ASR-N270/WT-R/1G/80G-XPE-R10 | 12.1" 1000 cd/m² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module,touch screen,1GB DDR2 553 MHz, M12 connectors and 80GB SATA HDD with Windows XP Embedded operaintg system | |
| | LINUX | SAILORPC-12ASR-N270/WT-R/1G/4G-LNX-R10 | 12.1" 1000 cd/m² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module,touch screen,1GB DDR2 553 MHz, M12 connectors and 4GB compact flash with LINUX operaintg system | |
| | LINUX | SAILORPC-12ASR-N270/WT-R/1G/80G-LNX-R10 | 12.1" 1000 cd/m² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module,touch screen,1GB DDR2 553 MHz, M12 connectors and 80GB SATA HDD with LINUX operaintg system | |

12.1" Aluminum UPS Panel PC UPC-12A with Smart Battery Backup

Rugged Aluminum Die-casting Body!

UPC-12A, a revolutionary model featuring smart battery technology, which allows users to monitor and manage battery's status directly through IEI unique user interface. The UPC-12A boasts a 12.1-inch XGA LCD screen with sunlightreadable 1000 nits options. The UPC-12A series equipped with battery pack provides emergency power when the main power source is not available, eliminating the risk of main power shutdown suddenly, permitting extremely flexible integration into a wide variety of applications:

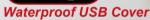
- Lift Truck System
- ATM
- Medical Cart
- Order Pick Cart
- Warehousing and distribution



Smart battery backup provides emergency power (14.8V, 3800 mAH)























Features:

- 12.1" all-in-one PPC with touch technology
- 1000 nits sunlight readable panel available
- Powerful all-in-one panel PC
 - Intel® GM45 chipset and 45nm mobile Core™2 Duo processor support
 - An onboard ULV Intel® Celeron® M 1GHz plus 512K with Intel® 910GMLE chipset support
- Battery backup power protects your productivity from the constant threat of power outages and lost data
- Ambient light sensor detects ambient light for automated screen adjustments to optimize viewing.
- (0%~100% brightness control for sunlight readable version)

- Dual Gigabit Ethernet to allocate reduce the network collision and crash, or virus infection
- Remote power On/Off switch
- 802.11 b/g/n Wi-Fi support
- PCI expansion slot for adding more capacity (Optional PCI express expansion interface)
- One Compact Flash® Type II socket
- Standard VESA 75/100 mounting
- Robust die-casting aluminum chassis
- IP 65 compliant aluminum front panel compliant
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)

UPS Panel PC Applications

A. Mobile System Solution

Providing backup power for the data sensitive part of movable equipment, allowing charging and battery replacement of the primary power without shutting down the data terminal.



Benefits:

- · Provides power for certain period of time after a power fail has occurred
- · Continue to provide stable power to equipment during line sags & spikes.
- · Absorb power surges & transients.
- · Smooth out noisy power sources.

B. Power Bank Solution

Acts as power input regulator to prevent unstable power input damage and avoid protect against unexpected power loss.







C. Other Relative Applications

Production Line





With UPS Protection

The IEI Smart Battery is immediately enabled when power failed, and provides stable power so the operator can save important system parameter



Without UPS Protection

System shuts down or hangs-up suddenly and all data is lost because no backup power is

A. Smart Battery Backup

Protect your productivity from power outages and data lost

1. Rechargeable Battery

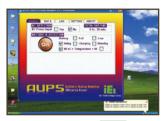




The UPC series is equipped with rechargeable "smart battery" which can supply voltage to systems up to 60 minutes without any external

| Platform | Smart Battery Run-time | |
|---------------|---------------------------|--|
| Intel®910GMLE | 40~60 mins | |
| Intol@GM4E | 40 mine | |

2. Battery Monitoring Utility



- Battery detection
- · Battery capacity status
- Battery charge
- DC Input Indicator
- · Battery Indicator Temperature warning
- Low battery alarm
- · Connection port status



only

Icon









4

Charging

Capacity 100%

3. Temporary Mobile System



UPC Battery Mode

BATT / UPS

AT / ATX

Under the battery mode, the UPC system can boot by power switch while the UPS battery supplies the main power to the unit as a temporary mobile system.

Protection

Automatic self-test Back Up Power

Battery self-test ensures early detection of a battery that needs to be replaced.

An Back-UPS instantly switches your computer to emergency battery backup power and allows you to work through brief power outages

Convenience

Audible Alarms

Proactively notifies you of changing battery under 10% capacity

Automatic self-test User friendly graphical interface.

Manageability

Software

This ensures real time monitoring and networking remote management Network based power management Internet ready monitoring

Manageability

LAN CONFIGURATION · LAN shows system IP Address

information



AUPS STATUS

• STATUS shows DC / Battery power• shows AUPS Utility input detection information

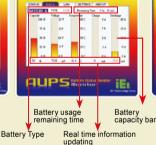
ABOUT



DC Input Detection Battery Status Detection

BATTERY STATUS • BAT.A shows Battery status real

time monitoring



SETTING

 SETTING shows Connection **Detection port**



Network Based Power Management and Monitoring

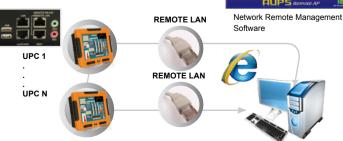
The UPC series carries with smart battery software utility and application program for user to monitor the battery real time status and remotely control system power on/off from anywhere and anytime through network. Remote management software allows users to use static IP or DHCP for remote management.

iEi.

Multiple Systems Power Control

The remote management software utility and application program allows users to easily get the status of the UPC and to control the UPC power functions form anywhere with an internet connection.

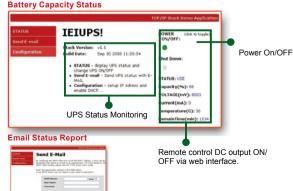




UPC Network Remote Management

No strong no one in the SI 1919 that the the strongs file for receive SI come

Battery Capacity Status



The powerful UPC-12A are designed for embedded performance grade applications. Featuring an Intel® GM45/910GMLE provides total compatibility in a wide variety of high performance end lower power industrial control applications.

Brand

Intel® GM45

The UPC-xxA seires integrated with the 45nm next generation Intel® Core™2 Duo processor family (Penrym) which extends leadership in performance and energy efficiency for low power embedded applications.

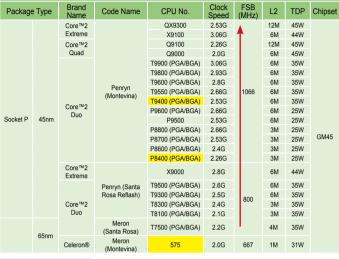
Performance Leadership

- Penryn on 45nm process
- Large L2 Cache and Faster FSB (6M, 1066MHz)

Increased Integration

Support for High Definition Decoder in H/W

| Format | Decoding Stage | GME965 | GM45 |
|-------------|--|--------|------|
| | HW Motion Comp | ٧ | ٧ |
| MPEG2 (DVD) | Inverse DC Transform | ٧ | ٧ |
| | Variable Length Decode | ٧ | ٧ |
| | HW Motion Comp + In Loop Deblocking | v | v |
| VC-1 (WMV9) | Inverse Transform | | ٧ |
| | Variable Length Decode | | V |
| AVC (H.264) | HW Motion Comp + In Loop Deblocking | v | v |
| (HD DVD) | Inverse Transform | | ٧ |
| | Variable Length Decode | | ٧ |



For performance-oriented users, socket type allows customers to easily upgrade processors from Celeron® M 2.0GHz to Core™2 Extreme 2.53GHz.

Millitary Application:

- Powerful PC with super high brightness LCD Screens for demanding military applications
 - Touch Screen Capable
- Integrated Intel® Core 2™ Duo CPU with high performance graphics speeds up to 533 MHz improve graphics and 3D rendering performance, enable high-definition video playback. for graphic intensive applications (i.e. mapping, simulation)

Intel® 910GMLE



Intel® Celeron® M 1GHz plus 512K cache with Intel® 910GMLE chipset

Offers the best combination of high performance computing features with the lowest power dissipation, ideal for industrial automation applications.



The pressure between the heat sink and the heat source must be high for easily flow for good thermal transfer.

Comparison of CPU Performance Benchmark-SANDRA

(Higher index values are better)



AMD Geode (500MHz) VIA C7 (1.5GHz) VIA Eden (500MHz) Celeron® M (1GHz) Celeron® M (1GHz/512KB cache)

Selectable AT/ATX Power Mode



Convenient External Switch in the Rear







AT Power Mode

by a central switch. This power mode is best suited for multiple computers where constant connectivity is not necessary, as the computers cannot be accessed or turned on remotely

UPC switch settings BATT / UPS AT / ATX

Benefits:







ATX Power Mode

The ATX power option allows systems to be powered on and off remotely over a network. Systems must be plugged in all the time, but they can be turned on from a "soft-off" using software that sends the appropriate signal over the network connections. Individual PCs can be turned on at the same time. The always-on ability allows complete remote administration, reducing technician visits to only

UPC switch settings

BATT/UPS AT/ATX

Benefits:

- save power when the PPC is not used. Remote Control: The standby function on the ATX mode
- power supply allows the PPC to be turned on/off remotely

C. Flexible Expansion Interface (PCI/PCIe/PCIe mini Expansion Interface)

UPC series provide many expansion interfaces including one standard 32-bit PCI slot for various PCI add-on card, and one PCIe mini card socket for a small form factor extender such as wireless module.



1. PCI/Optional PClex1 Expansion Slot

Anti-vibration Riser
Tightly secured riser card design











2. PCle mini slot for 802.11b/g/n wireless module

The UPC series featuring high speed WiFi IEEE 802.11 n protocol which builds on previous 802.11 standards by adding multiple-input multiple-output (MIMO) and 40 MHz operation to the physical (PHY) layer. MIMO uses multiple transmitter and receiver antennas to improve the system performance. The 40 MHz operation uses wider bands, compared to 20 MHz bands in previous 802.11 operation, to support higher data rates. Wider bandwidth channels are cost effective and easily accomplished with moderate increases in digital signal processing.



27 times faster data transfer rate compared to 802.11b

| Protocol | Freq. | Thru. | Data | Range indoor | Range outdoor |
|----------|--------------------------|----------|------------------------|--------------|---------------|
| 802.11 | (GHz) | (Mbit/s) | (Mbit/s) | (m) | (m) |
| а | 5 GHz | 23 | 54 Mbit/s | ~35 | ~120 |
| b | 2.4 GHz | 4.3 | 11 Mbit/s | ~38 | ~140 |
| g | 2.4 GHz | 19 | 54 Mbit/s | ~38 | ~140 |
| n | 5 GHz and/ or 2.4 GHz | 74 | 300 Mbit/s (2 streams) | ~70 | ~250 |



The UPC System Features

- Invisible antenna delivers 802.11n wirelessnetwork connectivity
- Wireless IEEE 802.11 b/g/n module with PCI Express Mini-Card interface

D. Sunlight Readable



1000 nits Super High Brightness

The UPC-12AH series has greatly improved luminance through edge lighting to achieve super high brightness

Low Reflection through AR (Anti-Reflection) Technology

Outdoor applications in daylight or other bright environments require technology that can suppress surface reflection. The UPC-12AH sunlight readable model offers special AR (anti-reflection) surface treatment to prevent reflection, which ensures excellent visibility in daylight conditions.

Super high brightness: 1000 nits High contrast: 700:1 Wide viewing angel: 60/60 (R/L) 45/75 (U/D)

E. Ambient Light Sensor



Ambient Light Sensor provides Comfortable Viewing and Power Saving

Atuo-detects the amount of light in the viewing environment and auto-adjusts the brightness of the screen.

- · Avoid eye strained and tried, to provide comfortable viewing
- · Power consumption saving
- · Extend lamp lifetime
- Extends backlight life

Note: Fully Dimmable Controls (for UPC-xxAH model)

1-122

UPC-12A-V22

F. Rugged Design

The UPC series ultra-rugged design survives the continuous shocks and jolts of a forklift. Engineered with a tough, anti-vibration and IP65 front panel dust and water rating.

Robust Die-Cast Aluminum Enclosure

A rugged die-cast aluminum enclosure helps the need for using a fan as a heat dissipation device to minimize the troublesome overheating problem



Rigorous Shock/ **Vibration Test**



Compliant with MIL-STD-810F shock and vibration protection, as well as offering IP65 water and dust proof front panel protection.



HDD install with Anti-shock buffer rubber enhances protection performance.

Dismantleable Fan **Module for Easy Maintenance**





Applications

1. Lift Truck PPC

Lift truck mounted with UPC-12A, just as with barcode scanners, enable real-time data collection which allows operators to accomplish traditional warehouse tasks - faster - thus reducing labor costs.



We Offer:

- 9~28V DC Input for Mobile Application.
- WiFi 802.11 b/g/n
 802.11b/g Wi-Fi, which gives you up to broadband-speed browsing and connectivity while moving, compared to traditional wired LAN. Without





2. Power Bank

Redundant Power Protection
As the redundant power supply, in the event of the main power source failing or running out, the UPC unit is able to power the load to provide greater reliability.

Wide Range 9V~28VDC Input
The UPC series provides wide range +9~+28VDC power input for regulator function to prevent unstable power input damage, also avoid unexpectedly power lost.

Rechargeable temporary battery pack
Providing up to 60 minuets uninterrupted operation time for external battery change or relocation data back up.

Reduce Risk of Losing Valuable Data as Continuous System Operation

VESA Compliance Easy to Employ

- VESA Compliance Easy to Employ

Automation
Panel
Solutions

All-in-One

3 Digital Signage

Video Wa Controller

RISCbased Solution

> PACSmate Medical

Optional Peripherals

Fully I/O and User Friendly Interface



LED Indicator

(Power LED/HDD Status/Charging/ Discharging/Light Sensor)



• Membrane Keypad Control

LCD On/Off; Brightness Up/Down; Volume Up/Down; Auto Dimming On/Off; Battery Low Beeper (under 10% batter capacity beeper on/off) 19~28VDC Input

2 Power Switch

3 DC 12V Power Jack

4 3 x RS-232 COM, 1 x RS-232/422/485 COM 1 Reset

5 User-accessible CF

6 4 x USB2.0

7 1 x PCI Expansion Slot (Optional PCIex1 expansion) 8 2 x RJ-45 Giga LAN

9 Remote RS-232, Remote LAN

10 Clear cmos

12 Line-out

13 Mic-in

Remote DC On/Off

15 VGA Output

Specifications

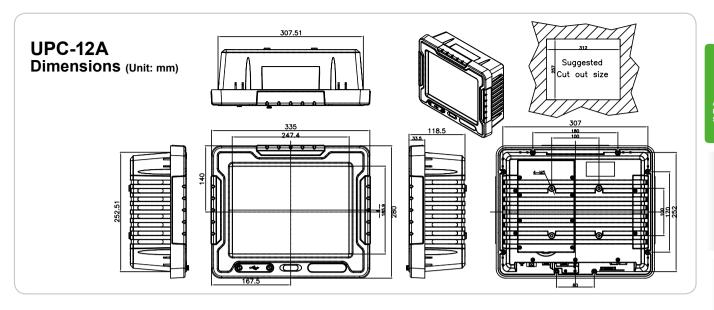
Waterproof front USB

Designed for industrial use, UPC waterproof front USB cover is based around the

standard USB interface, with USB Ver.2 performance offering data transfer up to

| Model | | 12.1" R | egular Brightness | 12.1" S | 12.1" Sunlight Readable | | |
|-------------------|----------------------------|--|---|--|--|--|--|
| wouei | | UPC-12A/910 | UPC-12A/GM45 | UPC-12AH/910 | UPC-12AH/GM45 | | |
| LCD Size | | | 12.1" | | 12.1" | | |
| | Max Resolution | | 1024 x 768 | | 1024 x 768 | | |
| | Brightness (cd/m²) | | 450 | | 1000 | | |
| Diagla | Contrast Ratio | | 700:1 | | 500:1 | | |
| Display | LCD Color | | 262k | | 262k | | |
| | Pixel Pitch (mm) | 0. | 240(H) x 0.240(V) | 0.3 | 0.240(H) x 0.240(V) | | |
| | Viewing Angle (H-V) | | 150o/150o | | 120o/120o | | |
| | Backlight MTBF | | 50000hrs | | 50000hrs | | |
| Motherboard | СРИ | Intel® Celeron® M processor 1.0GHz with 512KBL2 Cache | Intel® Core™2 Duo P8400 2.26GHz Intel® Celeron® M 575 2.0GHz Intel® Core™2 Duo T9400 2.53GHz | Intel® Celeron® M processor 1.0GHz with 512KBL2 Cache | Intel® Core™2 Duo P8400 2.26GHz Intel® Celeron® M 575 2.0GHz Intel® Core™2 Duo T9400 2.53GHz | | |
| vioti ierboard | Chipset | Intel® 910GMLE + ICH6M | Intel® GM45 Chipset + ICH9M | Intel® 910GMLE + ICH6M | Intel® GM45 Chipset + ICH9M | | |
| | RAM | | two DDRII S | O-DIMM Up to 4GB | | | |
| VO. | | 3 x RS-232 COM 1 x RS-232/422/485 COM 2 x R.1-45 Giga LAN 6 x USB 2.0 (2 waterproof 1 x VGA 1 x Power Switch 2 x Audio Jack (Line-out, N 1 x Reset Button | oof USBs in front of the panel) 1 x Power Mode Switch (Battery or DC input) 1 x 9-28VDC Power Input Terminal Block 1 x 9-28VDC Power Input Terminal Block 1 x Networking UPS Management Port by RJ-45 Ethernet 1 x Remote COM port by R J-45 Connector | | ock t by RJ-45 Ethernet octor | | |
| Expansion | | 1 x PCI, 1 x PClex1 (Optional), 1 x PCIe mini (Wireless LAN Module) | | | | | |
| LED Indicator | | Power LED / HDD Status / Charging / Discharging / Light Sensor | | | | | |
| Membrane Keypa | d | LCD On/Off; Brightness Up/Down; Volume Up/Down; Auto Dimming On/Off; Battery Low Beeper (under 10% batter capacity beeper on/off) | | | | | |
| Drive Bay | SSD | CF Type II | | | | | |
| Drive Bay | HDD | 1 x 2.5" SATA HDD bay | | | | | |
| | Capacity | 14.8V, 3800 mAH | | | | | |
| Battery | | | 40 mins | | 40 mins | | |
| batter y | UPS run-time | 60 mins | 50 mins | 50 mins | 30 mins | | |
| | | | 40 mins | | 40 mins | | |
| | Construction Material | | Aluminum Die-casting | | | | |
| Physical | Mounting | | | 00 mm x100 mm | | | |
| , | Front Panel Color | | Orange | (Pantone 151C) | itone 151C) | | |
| | Dimension (WxHxD) (mm) | | 335 x 280 x 119 | | | | |
| | Operation Temperature (°C) | | | 0°C~55°C | | | |
| | Storage Temperature (°C) | | | 2~70°C | | | |
| Environment | Net/Gross Weight | | | Kg / 6.9 Kg | | | |
| | IP Level | IP65 Front Panel Compliant | | | | | |
| | Safety & EMC | | | CC / CCC / CB | | | |
| Touch Screen | | | • • | Touch controller IC is on board) | | | |
| Power Requireme | nt | | | ~28VDC | | | |
| | | | 63W | | 73W | | |
| Power Consumption | on | 56W | 60W | 64W | 70W | | |
| | | | 65W | | 74W | | |

*note: Battery normal operating temperature 0°C~45°C



Ordering Information

| Part Nu | Part Number | | Description | | |
|---------|---------------------|--------------------------------------|---|--------------------------------------|--|
| | | UPC-12A/910-CM373/WT-R/1GB-R10 | 12.1" 450 cd/m² XGA panel PC with Intel® Celeron® M 1.0GHz/512KB CPU, 100W UPS with 14.8V, 3800mAH, 1GB DDR2 RAM and touch screen, 802.11 b/g/n wireless | | |
| | Danislas Brinkturas | UPC-12A/GM45-CM575/WT-R/1GB-R10 | 12.1" 450cd/m² XGA panel PC with Intel® Celeron® M 575 2GHz CPU , 100W UPS with 14.8V, 3800mAH, 1GB DDR2 RAM and touch screen, 802.11 b/g/n wireless | | |
| | Regular Brightness | UPC-12A/GM45-P8400/WT-R/2GB-R10 | 12.1" 450cd/m² XGA panel PC with Intel® Core™2 Duo P8400 2.26GHz CPU, 100W UPS with 14.8V, 3800mAH, 2GB DDR2 RAM and touch screen, 802.11 b/g/n wireless | | |
| 12.1" | | UPC-12A/GM45-T9400/WT-R/2GB-R10 | 12.1" 450cd/m² XGA panel PC with Intel® Core™2 Duo T9400 2.53GHz CPU, 100W UPS with 14.8V, 3800mAH, 2GB DDR2 RAM and touch screen, 802.11 b/g/n wireless | | |
| 12.1 | | UPC-12AH/910-CM373/WT-R/1GB-R10 | 12.1" 1000 cd/m² XGA panel PC with Intel® Celeron® M 1.0GHz/512KB CPU, 100W UPS with 14.8V, 3800mAH, 1GB DDR2 RAM and touch screen, 802.11 b/g/n wireless | | |
| | Sunlight Readable | | 0 P. d. D d. b.l. | UPC-12AH/GM45-CM575/WT- R/1GB-R10 | 12.1" 1000 cd/m² XGA panel PC with Intel® Celeron® M 575 2GHz CPU , 100W UPS with 14.8V, 3800mAH, 1GB DDR2 RAM and touch screen, 802.11 b/g/n wireless |
| | | UPC-12AH/GM45-P8400/WT- R/2GB-R10 | 12.1" 1000 cd/m² XGA panel PC with Intel® Core™2 Duo P8400 2.26GHz CPU, 100W UPS with 14.8V, 3800mAH,2GB DDR2 RAM and touch screen, 802.11 b/g/n wireless | | |
| | | UPC-12AH/GM45-T9400/WT- R/2GB-R10 | 12.1" 1000 cd/m² XGA panel PC with Intel® Core™2 Duo T7500 2.2GHz CPU, 100W UPS with 14.8V, 3800mAH, 2GB DDR2 RAM and touch screen, 802.11 b/g/n wireless | | |

Options

| Model | UPC-12A-910 | UPC-12A-GM45 | UPC-12AH-GM45 |
|---------------------|---------------------------------------|--------------|---------------|
| Panel mounting kit | UPCPK-12 | | |
| Wall mounting kit | AFLWK-19 | | |
| Rack mounting kit | UPCRK-12 | | |
| ARM | ARM-11-RS / ARM-31-RS | | |
| Stand | STAND-A19 / STAND-B19 / STAND-210-R11 | | |
| OS: Win CE 6.0 | UPCCF-12-910-CE060-R10 N/A N/A | | |
| OS: Win XPE | UPCCF-12-910-XPE-R10 | | |
| Battery Pack | BAT-LI-4S2P3800A (14.8V, 3800mAH) | | |
| PCle x 1 Riser Card | 034D335-00-100-RS | | |

Packing List

| Item | Part Number | Q'ty | Specification |
|----------------------------------|--------------------|------|--|
| Screws Pack | 44003-050501-RS | 4 | M5; 5mm |
| RJ45 to DB9 COM port cable | 32000-089201-RS | 1 | |
| Power Adpater | 63000-FSP096AHB-RS | 1 | 90~264V AC; 12V DC; 96W |
| Power Cord | 32000-000002-RS | 1 | 1750mm; European Standard |
| Utilities CD | 7B000-000087-RS | 1 | |
| Touch Pen | XTR104-0002-RS | 1 | - |
| WiFi 802.11 b/g/n PCle mini card | 7F900-Q802XKN-RS | | |
| Smart battery pack | BAT-LI-4S2P3800A | | Lithium ion Battery 4S2P, 3800mAh, FOR UPC Series |

Note: Suggest to connect DC input constantly. Battery will be drained after 14 hours.











802.11 b/g/n PCIe mini



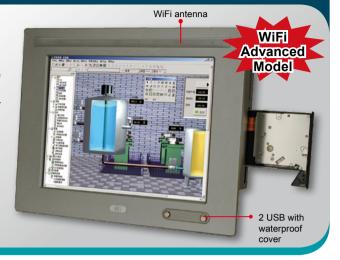
Utilities CD



WIDS-515A/517A

15"/17" Wireless Panel Mount Panel PC

The WIDS series featuring high speed WiFi IEEE 802.11n protocol which builds on previous 802.11 standards by adding multiple-input multiple-output (MIMO) and 40 MHz operation to the physical (PHY) layer. MIMO uses multiple transmitter and receiver antennas to improve the system performance. The 40 MHz operation uses wider bands, compared to 20 MHz bands in previous 802.11 operation, to support higher data rates. Wider bandwidth channels are cost effective and easily accomplished with moderate increases in digital signal processing.





Features

- LGA 775 Intel® Core™2 Duo / Celeron® D FSB 533/800/1066 MHz processor
- Supports two 2.0 GB (max.) 667 MHz DDR2 DIMM
- Dual Gigabit Ethernet support
- Built-in invisible WiFi module supports 802.11 a/b/g/n
- Additional PCI expansion slot capacity

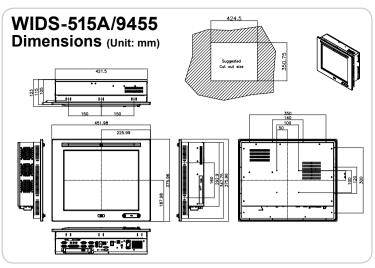
(Optional PCIe x4 slot with PCIe x1 expansion slot capacity)

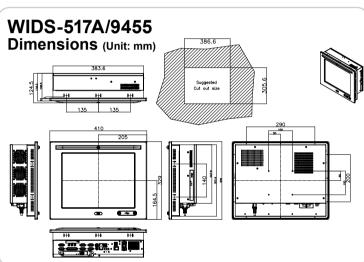
- Lockable power connector to ensure secure power cable connection
- Easily accessible external AT/ATX mode selection switch
- External CMOS reset button for fast system recovery
- One Compact Flash® Type II socket
- IP 65 compliant aluminum front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)

1 x PS/2 for Keyboard, 1 x PS/2 for Mouse CESSOT USB Switch 1 x PCI Expansion Slot CMOS Reset Button 1 x LPT 1 x RS-232/422/485 AT/ATX Switch 1 x LIPT 1 x VGA 12V DC In 4 x USB 2.0 2 x LAN 1 x CF slot 1 x Line-in 1 x Line-out 1 x Min-in

Specifications

| Model | | WIDS-515A / 9455 | WIDS-517A / 9455 | | |
|------------------------|--------------|--|--|--|--|
| LCD | | Resolution :1024x768 (XGA) Brightness : 350 cd/m² Contrast Ratio : 700:1 Viewing Angle (H-V):140/125 Backlight MTBF : 50,000 hrs | Resolution :1280x1024 (SXGA) Brightness : 300 cd/m² Contrast Ratio : 800:1 Viewing Angle (H-V):140/140 Backlight MTBF : 50,000 hrs | | |
| CPU | | LGA 775 Intel® Core™2 Duo | LGA 775 Intel® Core™2 Duo / Celeron® D with a 533/800/ 1066 MHz FSB | | |
| Chipset | | Inte | I® 945G + ICH7R | | |
| Memory | | 2 x 2 GB (max.) DDR2 | 667 MHz DIMM (system max. 4 GB) | | |
| VGA | | Intel® 94 | 5G supports dual display | | |
| SSD | | One | CF Type II socket | | |
| Drive Bay | | 1 x 2.5" SATA | II HDD bays with anti-shock | | |
| Drive Bay | | 1 x Sli | m Type CD-ROM bay | | |
| Ethernet | | 2 x F | Cle GbE controllers | | |
| Audio | | HD Audio C | HD Audio Codec with Realtek ALC883 | | |
| νo | | 1 x RS-232/422/485 4 x RS-232 6 x USB 2.0 (2 waterproof USB in the front of the panel) 2 x PS/2 (KB/MS) 1 x LPT 1 x VGA out | 2 x LAN 3 x Audio (Lin-in, Line-out,MIC-in) 1 x CMOS reset button 1 x AT/ATX switch 1 x USB switch | | |
| Expansion Slot | | One PCI, One Mini-PCIe (for Wireles | s 802.11 b/g/n module), One PCle x1 slot (Optional) | | |
| Touch Screen | | 5-wire resistive type with RS-232 interface | | | |
| Operating Tempe | rature | 0°C~50°C | | | |
| Storage Tempera | ture | -20°C ~ 60°C | | | |
| Vibration | | -5~17Hz 0.1" double amplitude displa | -5~17Hz 0.1" double amplitude displacement, 17~640 Hz 1.5G acceleration peak to peak | | |
| Shock | | 10G acceler | 10G acceleration peak to peak. (11 ms) | | |
| Relative Humidity | | 5%~ 95% | @ 60°C, non-condensing | | |
| Net / Gross Weight | | 7 kg /11 kg | 8 kg / 12 kg | | |
| Dimensions (W x H x D) | | 410 mm x 329 mm x 124.5 mm | 451.98 mm x 375.96 mm x 123 mm | | |
| Power Supply | ATX AC-input | AC Input ATX Power Supply 180W, ACE-A618A-RS - Input: 90 ~ 264VAC @ 50/60Hz - Output (max.): 3.3V@14A, 5V@16A, 12V@14A, -12V@0.5A | AC Input ATX Power Supply 220W, ACE-A622A-RS - Input: 90 ~ 264VAC @ 50/60Hz - Output (max.): 3.3V@14A, 5V@16A, 12V@10A,- 12V@0.8A | | |
| ATX DC-input | | DC Input ATX Power Supply- 200W, ACE-4520C-RS- Input: 24VDC @ 50/60Hz- Output (max.) : 3.3V@12A, 5V@12A, 12V@15.4A, -12V@0.5A | | | |
| Front Panel Prote | ection | IP 65 compliant | | | |
| Certificate | | Meets CE, FCC | | | |





Packing List

| Part Number | Description | Amount |
|-----------------|-------------------------|--------|
| 19600-000078-RS | Screw Kit | 1 |
| PK-170M | Panel Mounting Kit | 1 |
| WK-190MS-R10 | Wall Mounting Kit | 1 |
| 32000-000002-RS | Power Cord | 1 |
| 33100-000079-RS | Jumper Pack | 1 |
| | User Manual & Driver CD | 1 |

Options

| Part Number | Description |
|--------------------|---|
| 19Z00-000112-RS | |
| | IDE CD-ROM Installation Kit (W/O IDE Cable) |
| 32200-000045-RS | 40cm CD-ROM IDE Cable |
| 41019-0393C0-00-RS | IDE HDD Bracket |
| 32200-000037-RS | 25cm HDD IDE Cable |
| 134D270-00-102-RS | PCIe x4 slot with PCIe x1 Signal Riser Card |

WiFi 802.11 a /b/g/n WLAN Networking





27 times faster data transfer rate compared to 802.11b

| Protocol | Freq. | Thru. | Data | Range indoor | Range outdoor |
|----------|--------------------------|----------|------------------------|--------------|---------------|
| 802.11 | (GHz) | (Mbit/s) | (Mbit/s) | (m) | (m) |
| а | 5 GHz | 23 | 54 Mbit/s | ~35 | ~120 |
| b | 2.4 GHz | 4.3 | 11 Mbit/s | ~38 | ~140 |
| g | 2.4 GHz | 19 | 54 Mbit/s | ~38 | ~140 |
| n | 5 GHz and/ or 2.4 GHz | 74 | 300 Mbit/s (2 streams) | ~70 | ~250 |

IP 65 Security Front USB Port

Designed for industrial use, WIDS waterproof front USB cover is based around the standard USB interface, with USB Ver.2 performance offering data transfer up to 480Mbs.





Front USB function switch allow user to enable or disable the front USB port function. Depends on application and security demands, the system administrator can easily make decision to release the front USB port or not.



IQ Mounting Options

| LCD Size | 15" Panel PC | 17" Panel PC | |
|-----------------|-----------------------------------|--------------|--|
| Panel Mount Kit | PK-170M | | |
| Wall Mount Kit | WK-190MS-R10 | | |
| Rack Mount Kits | WIDSRK-150MS-R10 WIDSRK-170MS-R10 | | |
| Stand | STAND-210-R11 | | |
| ARM | ARM-31-RS | | |

Ordering Information

▼15" XGA Touch Panel PC

| , , ,,, | , to Non todoit and to | | | |
|------------|-------------------------------------|---|--|--|
| Power Type | Part Number | Description | | |
| AC | WIDS-515A/9455-E2160/A618A/WT-R/1GB | 15" 350 cd/m² XGA Panel PC with POS-9455, Pentium Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, Silver color, PSU ACE-A618A, touch screen, RoHS | | |
| DC | WIDS-515A/9455-E2160/4520C/WT-R/1GB | 15" 350 cd/m² XGA Panel PC with POS-9455, Pentium Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, Silver color, PSU ACE-4520C, touch screen, RoHS | | |

▼17" SXGA Touch Panel PC

| Power Type | Part Number | Description | | | |
|------------|-------------------------------------|--|--|--|--|
| AC | WIDS-517A/9455-E2160/A622A/WT-R/1GB | 17" 300 cd/m² SXGA panel PC with POS-9455, Pentium Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, Silver color, PSU ACE-A622A, touch screen, RoHS | | | |
| DC | WIDS-517A/9455-E2160/4520C/WT-R/1GB | 17" 300 cd/m² SXGA panel PC with POS-9455, Pentium Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, Silver color PSIJACE-4520C, touch screen RoHS | | | |

WIDS-515A-V22

Automatic Panel Solutions

2

3

gital gnage

/ideo Wall

5 SCsed

6 CSmate

ACSmate Medical

Optional

Industrial Aluminum PPC-27 Series

PPC-2706GHS/LX-800

PPC-2708GHS/LX-800

AMD Geode LX800 500MHz Processor with 6.5" TFT LCD and Touchscreen

AMD Geode LX800 500MHz Processor with 8.4" TFT LCD and Touchscreen



Features

- 1. 6.5" TFT VGA LCD / 8.4" TFT SVGA LCD
- 2. AMD Geode™ LX-800 processor
- 3. Supports 1 GB (max.) 333/444 MHz DDR SO-DIMM
- 4. Dual 10/100Mbps Ethernet
- 5. One CompactFlash®Type I/II socket
- 6. Aluminum die-casting front panel compliant with IP 65 standard
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)





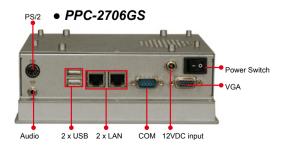




Specifications

| Орос | | | symantec. |
|------------------------------------|----------------------------|---|--|
| | Model | PPC-2706GS/LX-800 | PPC-2708GHS/LX-800 |
| | LCD Size | 6.5" | 8.4" |
| | Max Resolution | 640(W) x 480(H) | 800(W) x 600(H) |
| Display | Brightness (cd/m²) | 500 | 400 |
| | Contrast Ratio | 450 : 1 | 400:1 |
| | LCD Color | 262K | 262K |
| | Pixel Pitch (mm) | 0.069(W) x 0.207(H) | 0.213(H) x 0.213(V) |
| | Viewing Angle (V-H) | 120° / 140° | 100° / 120° |
| | Backlight MTBF (hrs) | 30,000 | 50,000 |
| | SBC Model | WAFER-LX-800 | WAFER-LX-800 |
| | CPU | AMD Geode LX800 500MHz processor | AMD Geode LX800 500MHz processor |
| Motherboard | Chipset | AMD Geode LX800 + AMD CS5536 | AMD Geode LX800 + AMD CS5536 |
| | RAM | Supports one 333/400MHz DDR SO-DIMM(1GB Max.) | Supports one 333/400MHz DDR SO-DIMM(1GB Max.) |
| I/O Ports and Sv | vitches | 1 x RS-232 COM Port 2 x USB Port 1 x PS/2 (KB/MS) 2 x RJ-45 for 10/100Mbps LAN 1 X VGA out 1 x Audio (Line-out) 1 x 12VDC input Power Jack 1 x Power Switch | 2 x RS-232 COM Port (One optional for Touch Screen) 2 x USB Port 1 x PS/2 (KB/MS) 2 x RJ-45 for 10/100Mbps LAN 1 X VGA out 1 x Audio (Line-in, Line-out, MIC-in) 1 x 12VDC input Power Jack 1 x Power Switch |
| D: D | HDD Driver Bay | 1 x 2.5" SATA/IDE HDD Bay | 1 x 2.5" SATA/IDE HDD Bay |
| Driver Bay | SSD | CF Type II | CF Type II |
| | Construction Front Panel | Aluminum | Aluminum |
| | Construction Chasis | Heavy-duty Steel | Heavy-duty Steel |
| Dharinal | Mounting | Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm | Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm |
| Physical | Front Panel Color | Silver (Pantone 8001C) | Silver (Pantone 8001C) |
| | Dimension (WxHxD) (mm) | 183 x 143 x 62.6 | 244 x 178 x 67 |
| | Net Gross Weight | 1.4 Kg / 3.4 Kg | 2.2 Kg / 4.4 Kg |
| | Operation Temperature (°C) | -10°C ~50°C | -10°C ~50°C |
| | Storage Temperature (°C) | -20°C ~60°C | -20°C ~60°C |
| Environment | Vibration | 5~17Hz, 0.1" double amplitude displacement 17~640Hz, 1.5G acceleration peak to peak | 5~17Hz, 0.1" double amplitude displacement 17~640Hz, 1.5G acceleration peak to peak |
| | Shoock | 10G acceleration part to part (11ms) | 10G acceleration part to part (11ms) |
| Touch Screen | | Resistive Type 4-Wire with RS-232 interface | Resistive Type 4-Wire with RS-232 interface |
| Power Supply AC / DC Power Adapter | | P/N: 63000-FSP0601AD101C712-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC | P/N: 63000-FSP0601AD101C712-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC |
| Front Panel Prot | ection | IP65 Compliant | IP65 Compliant |
| Certificate | | Meets CE, FCC | Meets CE, FCC |
| | | | |

Fully Integrated I/O



Audio PS/2 Power Switch 12VDC input 2 x USB COM 1 VGA COM 2 (optional)

Solutions

All-in-One Touch POS

Digital Signage

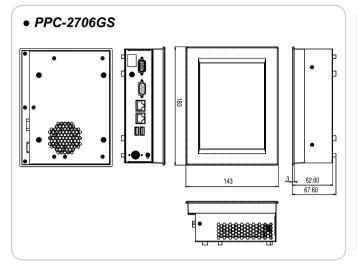
Video Wall Controller

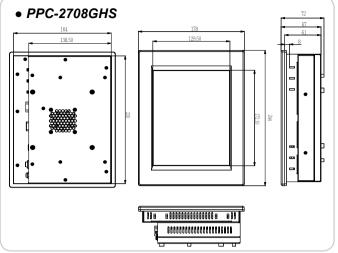
RISCbased Solutions

ACSmate Medical

Optional Peripherals

Dimensions (Unit: mm)





Compact Size

The compact size is suitable for any places with space limitations.





IEI OS Build Service Flow Chart

IEI offers OS build service in the industrial CF card as the total solution for embedded Panel PC.





WinCE/XP Embedded Requirment

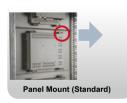


Function Test

Shipping

IQ Mount Supporting List











Options

| | PPC-2706GS/LX | PPC-2708GHS/LX | | |
|--|-----------------------|-----------------------|--|--|
| Rack Mount Kits | RK-065MS-R10 | RK-084MS-R10 | | |
| LCD Monitor Arm | ARM-11-RS | ARM-11-RS | | |
| LCD Monitor Stand Din Mounting Kits | STAND-100-RS/DK-084MS | STAND-100-RS/DK-084MS | | |
| Din Mounting Kits | DK-084MS | DK-084MS | | |

Packing List

| Description | Part Number | Amount |
|------------------------------------|---|--------|
| Screw Kit | 19600-000205-RS | 1 |
| Jumper Pack | 33101-000249-RS | 1 |
| Power Cord | 32000-000002-RS | 1 |
| Power Adapter | 63000-FSP0601AD101C712-RS | 1 |
| PS/2 Cable | 32000-133200-RS | 1 |
| Panel Mounting Kits | PK-065M (PPC-2706GS/LX) PK-084M (PPC-2708GHS/LX) | 1 |
| Wall Mounting Kit | WK-190MS-R10 | 1 |
| Din Mounting Kit | 19Z00-000025-R10 (PPC-2706GS/LX) | 1 |
| HDD IDE Cable | 32200-074700-RS | 2 |
| Touch Screen Driver CD / Touch Pen | | 1 |
| User Manual & Driver CD | | 1 |

Ordering Information

| 6.5" TFT LCD | PPC-2706GHS/LX-800/T-R/256MB | 6.5" 500 cd/m² VGA TFT Panel PC with WAFER-LX-800, Silver color and Touch Screen, 256MB DDR RAM, RoHS | |
|---------------|----------------------------------|---|--|
| 9 4" TET I CD | PPC-2708GHS-R11/LX-800/T-R/256MB | 8.4" 400 cd/m² SVGA TFT Panal PC with WAFER-LX-800 Silver color and Touch Screen,256MB DDR RAM,RoHS | |
| 8.4" TFT LCD | PPC-2708GHS-R11/LX-800/T-R/512MB | 8.4" 400 cd/m² SVGA TFT Panal PC with WAFER-LX-800 Silver color and Touch Screen,512MB DDR RAM,RoHS | |

Industrial Aluminum PPC-27 Series

PPC-2710GHS/LX-800

PPC-2712GS/LX-800

AMD Geode LX800 500MHz Processor with 10.4" TFT LCD and Touchscreen

AMD Geode LX800 500MHz Processor with 12.1" TFT LCD and Touchscreen



Features

- 1. 10.4" TFT SVGA LCD / 12.1" TFT XGA LCD
- 2. Fanless cooling system
- 3. 500 MHz AMD Geode™ LX 800 processor
- 4. Supports 1 GB (max.) 333/444 MHz DDR SO-DIMM
- 5. Dual 10/100Mbps Ethernet
- 6. Fanless and ultra-low power consumption
- 7. Optional 802.11 b/g wireless LAN module
- 8. One CompactFlash® Type II socket
- 9. IP 65 compliant aluminum front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)





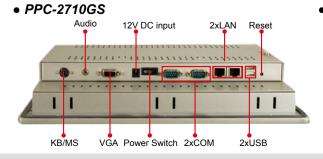


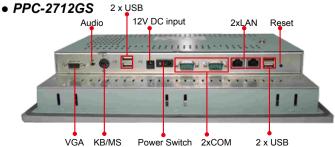


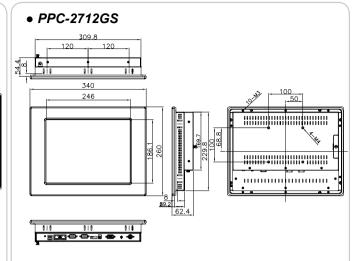
Specifications

| Opou | incations | | | | Symanic | | |
|------------------------|----------------------------|--|--|--|--|--|--|
| | Model | PPC-2710G | S/LX-800 | PPC-2712G | S/LX-800 | | |
| | LCD Size | 10.4 | 1" | 12.1" | | | |
| | Max Resolution | 800(W) x | 600(H) | 1024(W) > | (768(H) | | |
| | Brightness (cd/m²) | 400 |) | 450 | 0 | | |
| Diamlau | Contrast Ratio | 400 : | :1 | 700 | :1 | | |
| Display | LCD Color | 262 | K | 262 | K | | |
| | Pixel Pitch (mm) | 0.264(H) x | 0.264(V) | 0.240(H) x | 0.240(V) | | |
| | Viewing Angle (V-H) | 100° / 120° | | 160° / 160° | | | |
| | Backlight MTBF (hrs) | | 50, | 000 | | | |
| | SBC Model | | AFLMB- | -LX-800 | | | |
| Motherboard | CPU | | AMD Geode LX800 | 500MHz processor | | | |
| Motherboard | Chipset | | AMD Geode LX80 | 00 + AMD CS5536 | | | |
| | RAM | | Supports one 333/400MHz | DDR SO-DIMM(1GB Max.) | | | |
| I/O Ports and Switches | | 2 x RS-232 COM Port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x VGA Port 1 x Audio (Line-out) | 1 x PS/2 (KB/MS) 1 x 12VDC input Power Jack 1 x Power Switch 1 x Reset Button | 2 x RS-232 COM Port 2 x RJ-45 for 10/100Mbps LAN 4 x USB 2.0 1 x VGA Port 1 x Audio (Line-out) | 1 x PS/2 (KB/MS) 1 x 12VDC input Power Jack 1 x Power Switch 1 x Reset Button | | |
| Driver Bay | HDD Driver Bay | 1 x 2.5" / IDE HDD Bay | | | | | |
| Dilvei bay | SSD | | CF T | ype II | | | |
| Extension Slot | | | 1 x Wireless LAN 802.11 b/g Mo | dule (internal Mini PCI interface) | | | |
| | Construction Front Panel | Aluminum | | | | | |
| | Construction Chasis | Heavy-duty Steel | | | | | |
| Physical | Mounting | Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm | | | | | |
| riiysicai | Front Panel Color | Silver (Pantone 8001C) | | | | | |
| | Dimension (WxHxD) (mm) | 311.5 x 24 | 12 x 58 | 340 x 260 x 66 | | | |
| | Net Gross Weight | 2.8 Kg / s | | 2.8 Kg / 5.7 Kg | | | |
| | Operation Temperature (°C) | -10°C ~50°C | | | | | |
| Environment | Storage Temperature (°C) | | -20°C ~60°C | | | | |
| Liiviioiiiiciit | Vibration | 5~17Hz, | | :/ 17~640Hz, 1.5G acceleration peak to | peak | | |
| | Shoock | | 10G acceleration | part to part (11ms) | | | |
| Touch Screen | | Resistive Type 5-Wire with RS-232 interface | | | | | |
| Power Supply | AC / DC Power Adapter | P/N: 63000-FSP0481AD101C-RS 48W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC | | | | | |
| Front Panel Pro | tection | IP65 Compliant | | | | | |
| Certificate | | Meets CE, FCC | | | | | |

Fully Integrated I/O







Optional 802.11 b/g Wireless LAN Module

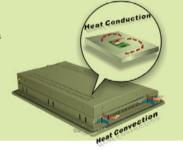
The PPC-2710G and PPC-2712G equip with a wireless module that that make larger bundles of data be transmitted at high speed and in real-time. The application of wireless LAN facilitates its use in large warehouses and at greater distances.



Fanless System

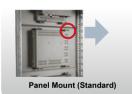
The PPC-2710G and PPC-2712G are designed with an AMD LX-800 platform. The AMD Geode™ LX 800 generates less heat than other processors but maintains an above-average performance enabling

a fanless design. A fanless design reduces the failure caused by fans and extends the operation life of the device.



IQ Mount Supporting List









Options

| | PPC-2710GHS/LX | PPC-2712GS/LX |
|--|----------------|---------------|
| Rack mount kits | RK-104MS-R10 | RK-121MS-R10 |
| LCD Monitor Arm | ARM-11-RS | ARM-11-RS |
| LCD Monitor Stand Din Mounting Kits | STAND-100-RS | STAND-100-RS |

Packing List

| Description | Part Number | Amount | |
|--|---|--------|--|
| Screw Kit | 19600-000207-RS | 1 | |
| Jumper Pack | 33100-000033-RS | 1 | |
| Power Cord | 32000-000002-RS | 1 | |
| Power Adapter | 63000-FSP0481AD101C-RS (48W Power Adapter) | 1 | |
| PS/2 Cable | /2 Cable 32000-000138-RS | | |
| Panel Mounting Kits PK-104M (PPC-2710GS/LX) PK-121M (PPC-2712GS/LX) | | 1 | |
| Wall Mounting Kit WK-190MS-R10 | | 1 | |
| Touch Screen Driver | 1 | | |
| User Manual & Driver CD | | | |

Ordering Information

| 10.4" TFT LCD | PPC-2710GHS/AFLMB-LX-800/T-R/256MB | 10.4" 400 cd/m² SVGA TFT Panel PC with AFLMB-LX-800, Silver Color & Touch Screen, 256MB RAM, RoHS |
|---------------|------------------------------------|--|
| 12.1" TFT LCD | PPC-2712GS/AFLMB-LX-800/T-R/256MB | 12.1" 450 cd/m² XGA TFT Panel PC with AFLMB-LX-800, Silver Color & Touch Screen, 256MB DDR RAM, RoHS |

1

gital gnage

Video Wall Controller

> SCsed olutions

ACSmate edical

7

Industrial Aluminum PPC-37 Series

PPC-3708

Intel® Celeron® M/Intel® Atom™ N270 Processor with 8.4" SVGA TFT LCD and Touchscreen

Features

- 1. 8.4" TFT SVGA LCD
- 2. Supports 2 GB (max.) 400/533 MHz DDR2 SO-DIMM
- 3. Dual Ethernet
- 4. Fanless and ultra-low power consumption
- 5. Optional 802.11 b/g wireless LAN module
- 6. One CompactFlash® Type II socket
- 7. IP 65 compliant aluminum die-casting front panel
- 8. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)



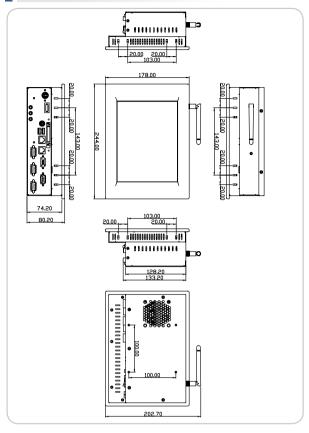


Specifications



| Specifications | | | Processor 1.6GHz | Fanles | | |
|------------------------------------|----------------------------|--|--|--|--|--|
| | model | PPC-3708GHS/8522 | PPC-3708GHS/9452 | PPC-3708A/N270 | | |
| | LCD Size | 8.4" | | | | |
| | Max Resolution | | 800(W) x 600(H) | | | |
| | Brightness (cd/m²) | | | | | |
| | Contrast Ratio | 450 : 1 | | | | |
| Display | LCD Color | | 262K | | | |
| | Pixel Pitch (mm) | | 0.213(H) x 0.213(V) | | | |
| | Viewing Angle (V-H) | | 100° / 120° | | | |
| | Backlight MTBF (hrs) | | 50,000 | | | |
| | SBC Model | NANO-8522 | NANO-9452 | NANO-945GSE-N270 | | |
| Motherboard | CPU | Socket 479 2.1GHz (max.) Intel® Pentium® M Celeron® M with 400 MHz 1 GHz or 600 MHz Intel® Celeron® zero cache CPU | Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB | Intel® Atom™ process N270 1.6GHz CPU | | |
| | Chipset | Intel® 852GM + ICH4 | Intel® 945GM + ICH7M | Intel® 945GSE + ICH7M | | |
| | · · | Supports one 266/200MHz DDR SO-DIMM | Supports one 400/533/667 MHz DDRII SO-DIMM | Supports one 400/533MHz DDRII SO-DIMM | | |
| | RAM | (1GB Max.) | (1GB Max.) | (2GB Max.) | | |
| I/O Ports and Switches | | 1 x RS-232 COM Port(Alternative to RS-422/485) 1 x RJ-45 for LAN Port 4 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x 12VDC input Power Jack 1 x Power Switch 1 x 9-36VDC input Terminal block (Optional) 1 x 2.5" SATA/IDE HDD Bay | 1 x RS-232 COM Port(Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x 12VDC input Power Jack 1 x Power Switch 1 x 2.5" SATA/IDE HDD Bay With anti-shook | 1 x RS-232 COM Port(Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x 12VDC input Power Jack 1 x Power Switch 1 x 2.5" SATA/IDE HDD Bay With anti-shook | | |
| Drive Bay | HDD Drive Bay | 1 x 2.5" SATA/IDE HDD Bay With anti-shook | | | | |
| • | SSD | | CF Type II | | | |
| Extension Slot | | N/A | · · | dule (internal Mini PCIe interface) | | |
| | Construction Front Panel | Aluminum Heavy duty Steel | | | | |
| | Construction Chasis | Heavy-duty Steel | | | | |
| Physical | Mounting | Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm | | | | |
| , = | Front Panel Color | | Silver (Pantone 8001C) | | | |
| | Dimension (WxHxD) (mm) | 243.57 x 178 x 80.2 | 243.57 x 178 x 80.2 | 243.57 x 178 x 80.2 | | |
| | Net Gross Weight | 2.2 Kg / 4.4 Kg | 2.2 Kg / 4.4 Kg | 2.2 Kg / 4.4 Kg | | |
| | Operation Temperature (°C) | | -10°C ~50°C | | | |
| Environment | Storage Temperature (°C) | | -20°C ~60°C | | | |
| Liiviioiiiioiit | Vibration | 5~17Hz, 0.1" d | ouble amplitude displacement 17~640Hz, 1.5G accelera | tion peak to peak | | |
| | Shoock | | 10G acceleration part to part (11ms) | | | |
| Touch Screen | | | Resistive Type 4-Wire with RS-232 interface | | | |
| Power Supply AC / DC Power Adapter | | For BGA Model - P/N: 63000-FSP0601AD101C-RS - 60W Power Adapter - Input: 90VAC~264VAC, 50/60Hz - Output: 12VDC For Socket Model - P/N: 63000-FSP0841ADC11118-RS - 84W Power Adapter - Input: 90VAC~264VAC, 50/60Hz - Output: 12VDC | Power Adapter - P/N: 63000-FSP0841ADC11118-RS - 84W Power Adapter - Input: 90VAC-264VAC, 50/60Hz - Output: 12VDC | Power Adapter - P.NI: 63000-FSP0841ADC11118-RS - 60W Power Adapter - Input: 90VAC~264VAC, 50/60Hz - Output: 12VDC | | |
| Front Panel Protection | | | IP65 Compliant | | | |
| Certificate | | | Meets CE, FCC | | | |
| Ethernet | | Intel® 82551ER for 10/100Mbps | 2 x PCIe Broadcom BCM5787M GbE chipsets with ASF2.0 remote control support | Dual Realtek RTL8111CP GbE Controllers | | |
| Audio | | AC' 97 2.3 Realtek ALC 655 | AC' 97 2.3 Realtek ALC 883 | Support by Audio Kit (AC'97 & HD) 5.1 channel AC' 97 2.3 Realtek ALC 655 | | |

Dimensions (Unit: mm)



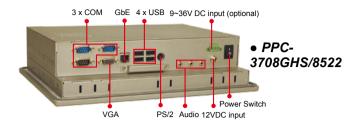
Packing List

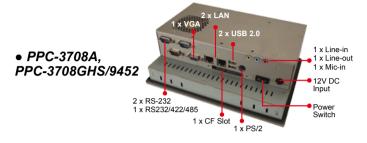
| Description | Part Number | Amount |
|--|--|--------|
| CD-ROM Installation Kit | 19B00-000032-RS | 1 |
| Power Cord | 32000-000002-RS | 1 |
| PS/2 Cable | 32000-000138-RS | 1 |
| Jumper Pack | 33100-000033-RS | 1 |
| Power Adapter (For GS Model Only) | 63000-FSP0601AD101C-RS - 60W 63000-FSP0841ADC11118-RS - 84W | 1 |
| Screw Kit | 19600-000205-RS | 1 |
| HDD IDE Cable | 32000-076800-RS (PPC-3708GHS/8522) | 1 |
| Panel Mounting Kit | PK-084M | 4 |
| Wall Mounting Kit | WK-190MS-R10 | 1 |
| User Manual & Driver CD | | |
| Touch Screen Driver CD / Touch Pen (For T-R model only) | | |

Options

| Panel Mounting Kit | PK-084M |
|--------------------|--------------|
| Wall Mounting Kit | WK-190MS-R10 |
| Rack mount kits | RK-084MS-R10 |
| LCD Monitor Arm | ARM-11-RS |
| LCD Monitor Stand | STAND-100-RS |
| Din Mounting Kits | DK-084MS |

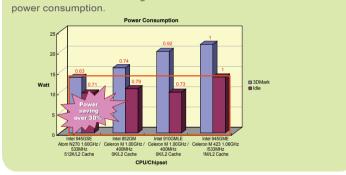
Fully Integrated I/O





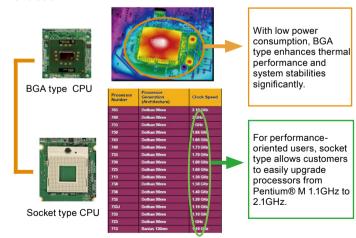
Inte® Atom™ Power Efficiency

New Microarchitecture design for Intel® Atom™ CPU reduces 50% power consumption.



Different Type for Different User

IEI always close to customer's needs through offering multiple choices.



Ordering Information

| Intel® 852GM | PPC-3708GHS/8522-1GZ/T-R/512MB-R12 | 8.4" 400 cd/m² SVGA TFT Panel PC with NANO-8522,CPU Celeron M 1.0GHz zero cache,Silver Color,512MB RAM and Touch Screen,RoHS |
|-------------------|--------------------------------------|---|
| Platform | PPC-3708GHS/8522-CM370/T-R/512MB-R12 | 8.4" 400 cd/m² SVGA TFT Panel PC with NANO-8522,CPU Celeron M 1.5GHz,Silver Color,512MB RAM and Touch Screen,RoHS |
| Intel® | PPC-3708GHS/NANO-9452-CM440/T-R/1GB | 8.4" 400 cd/m² SVGA TFT Panel PC with NANO-9452,CPU Celeron M 1.86Ghz,Silver color and Touch screen,w/1GB DDR2 RAM,RoHS |
| 945GM Platform | PPC-3708GHS/NANO-9452-T5500/T-R/1GB | 8.4" 400 cd/m²; SVGA TFT Panel PC with NANO-9452,CPU Core™2 Duo 1.66GHz,Silver color and Touch screen,w/1GB DDR2 RAM,RoHS |
| Intel® Atom™ | PPC-3708A/NANO-N270/T-R/1GB-R10 | 8.4" 400 cd/m² SVGA Panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor,1GB DDR2 RAM and touch screen,12VDC iput |

1 Automation Panel Solutions

All-in-One

3 gital gnage

deo Wall ontroller

SCsed olutions

CSmate edical

ptional

Industrial Aluminum PPC-37 Series

PPC-3710

Intel® Celeron® M / Intel® Atom™ N270 Processor with 10.4" SVGA TFT LCD and Touchscreen



Features

- 1. 10.4" TFT SVGA LCD
- 2. Supports 2 GB (max.) 400/533 MHz DDR2 SO-DIMM
- 3. Dual Ethernet
- 4. Fanless and ultra-low power consumption
- 5. Optional 802.11 b/g wireless LAN module
- 6. One CompactFlash® Type II socket
- 7. IP 65 compliant aluminum die-casting front panel
- 8. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)







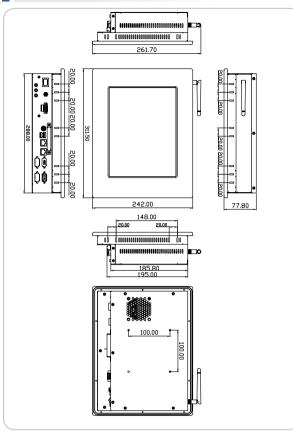




Specifications

| | Model | PPC-3710GHS/8522 | PPC-3710GHS/9452 | PPC-3710A/N270 | | |
|------------------------------------|----------------------------|---|---|--|--|--|
| | LCD Size | | 10.4" | | | |
| | Max Resolution | 800(W) x 600(H) | | | | |
| | Brightness (cd/m²) | 400 | | | | |
| | Contrast Ratio | 500 : 1 | | | | |
| Display | LCD Color | 262K | | | | |
| | Pixel Pitch (mm) | | 0.264(H) x 0.264(V) | | | |
| | Viewing Angle (V-H) | | 100° /120° | | | |
| | Backlight MTBF (hrs) | | 50.000 | | | |
| | SBC Model | NANO-8522 | NANO-945GSE-N270 | | | |
| Motherboard | CPU | Socket 479 2.1GHz (max.) Intel® Pentium® M Celeron® M with 400 MHz 1 GHz or 600 MHz Intel® Celeron® zero cache CPU | Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB | Intel® Atom™ process N270 1.6GHz CPU | | |
| | Chipset | Intel 852GM + ICH4 | Intel 945GM + ICH7M | Intel 945GSE + ICH7M | | |
| | RAM | Supports one 266/200MHz DDR SO-DIMM (1GB Max.) | Supports one 400/533/667 MHz DDRII SO-DIMM (1GB Max.) | Supports one 533MHz DDRII SO-DIMM (2GB Max.) | | |
| I/O Ports and St | witches | 2 x RS-232 COM Port 1 x RS-232 COM Port(Alternative to RS-422/485) 1 x RJ-45 for LAN Port 4 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x 12VDC input Power Jack 1 x Power Switch 1 x 9~36VDC input Terminal block (Optional) | 2 x RS-232 COM Port 1 x RS-232 COM Port(Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x 12VDC input Power Jack 1 x Power Switch | 2 x RS-232 COM Port 1 x RS-232 COM Port (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x 12VDC input Power Jack 1 x Power Switch | | |
| Driver Bay | HDD Driver Bay | 1 x 2.5" SATA/IDE HDD Bay | 1 x 2.5" SATA/IDE HDD bay with anti-shook | 1 x 2.5" SATA/IDE HDD bay with anti-shoo | | |
| Dilver bay | SSD | | CF Type II | | | |
| Extension Slot | | N/A 1 x Wireless Lan 802.11 b/g Module (internal Mini PCle interface) | | | | |
| | Construction Front Panel | Aluminum | | | | |
| | Construction Chasis | Heavy-duty Steel | | | | |
| Physical | Mounting | Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm | | | | |
| | Front Panel Color | | Silver (Pantone 8001C) | | | |
| | Dimension (WxHxD) (mm) | | 311.5 x 242 x 77.8 | | | |
| | Net Gross Weight | 3.4 Kg / 5.8 Kg | | | | |
| | Operation Temperature (°C) | -10°C ~50°C | | | | |
| Environment | Storage Temperature (°C) | | -20°C ~60°C | | | |
| IIIVIIOIIIIEIIL | Vibration | 5~17Hz, 0.1" doub | ole amplitude displacement, 17~640Hz, 1.5G accelerati | on peak to peak | | |
| | Shoock | | 10G acceleration part to part (11ms) | | | |
| Touch Screen | | | Resistive Type 5-Wire with RS-232 interface | | | |
| Power Supply AC / DC Power Adapter | | For BGA Model - P/N: 63000-FSP0601AD101C-RS - 60W Power Adapter - Input: 90VAC-264VAC, 50/60Hz - Output: 12VDC For Socket Model - P/N: 63000-FSP0841ADC11118-RS - 84W Power Adapter - Input: 90VAC-264VAC, 50/60Hz - Output: 12VDC | Power Adapter - P/N: 63000-FSP0841ADC11118-RS - 84W Power Adapter - Input: 90VAC-264VAC, 50/60Hz - Output: 12VDC | Power Adapter - P/N: 63000-FSP0601AD101C746-RS - 60W Power Adapter - Input: 90VAC-264VAC, 50/60Hz - Output: 12VDC | | |
| Front Panel Protection | | IP65 Compliant | | | | |
| Certificate | | Meets CE, FCC | | | | |
| Ethernet | | Intel® 82551ER for 10/100Mbps | 2 x PCIe Broadcom BCM5787M GbE chipsets with ASF2.0 remote control support | Dual Realtek RTL8111CP GbE Controller | | |
| Audio | | AC' 97 2.3 Realtek ALC 655 | AC' 97 2.3 Realtek ALC 883 | Support by Audio Kit (AC'97 & HD) 5.1 channel AC' 97 2.3 Realtek ALC 655 | | |

Dimensions (Unit: mm)



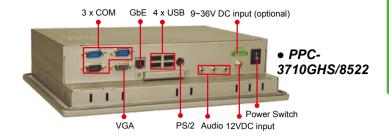
Packing List

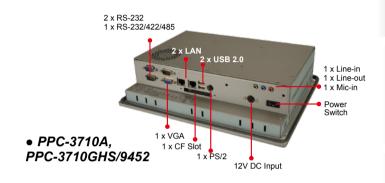
| Description | Part Number | Amount |
|---|--|--------|
| CD-ROM Installation Kit | 19B00-000032-RS | 1 |
| Power Cord | 32000-000002-RS | 1 |
| PS/2 Cable | 32000-000138-RS | 1 |
| Jumper Pack | 33100-000033-RS | 1 |
| Power Adapter (For GS Model Only) | 63000-FSP0601AD101C746-RS - 60W 63000-FSP084DMBA1308-RS - 84W 63000-FSP0601AD101C-RS | 1 |
| Screw Kit | 19600-000205-RS | 1 |
| HDD IDE Cable | 32000-076800-RS (PPC-3710GHS/8522) | 1 |
| Panel Mounting Kit | PK-104M (PPC-3710GHS/8522) | 1 |
| Wall Mounting Kit | WK-190MS-R10 | 1 |
| User Manual & Driver CD | | |
| Touch Screen Driver CD / Touch Pen (For T-R model only) | | |

Options

| Panel Mounting Kit | PK-104M |
|--------------------|--------------|
| Wall Mounting Kit | WK-190MS-R10 |
| Rack mount kits | RK-104MS-R10 |
| LCD Monitor Arm | ARM-11-RS |
| LCD Monitor Stand | STAND-100-RS |

Fully Integrated I/O





Optional 802.11 b/g Wireless LAN Module

The PPC 37 series are equipped with a high speed wireless module that enables larger data transmission in real time. The wireless LAN facilitates applications that require data transmission over large distances, such as in a large warehouse.





Ordering Information

| Intel® | PPC-3710GHS/8522-1GZ/T-R/512MB-R11 | 10.4" 400 cd/m² SVGA TFT Panel PC with NANO-8522,CPU Celeron® M 1.0GHz zero cache,Silver Color,512MB DDR RAM and Touch Screen,RoHS |
|-----------------------------|--------------------------------------|---|
| 852GM Platform | PPC-3710GHS/8522-CM370/T-R/512MB-R11 | 10.4" 400 cd/m² SVGA TFT Panel PC with NANO-8522,CPU Celeron® M 1.5GHz,Silver Color,512MB DDR RAM and Touch Screen,RoHS |
| Intel® | PPC-3710GHS/NANO-9452-CM440/T-R/1GB | 10.4" 400 cd/m² SVGA TFT Panel PC with NANO-9452,1.86 GHz Intel® Celeron® M CPU,Silver color and Touch screen,w/ 1GB DDR2 RAM,RoHS |
| 945GM Platform | PPC-3710GHS/NANO-9452-T5500/T-R/1GB | 10.4" 400 cd/m²; SVGA TFT Panel PC with NANO-9452,1.66 GHz Intel® Core™2 Duo CPU,Silver color and Touch screen,w/ 1GB DDR2 RAM,RoHS |
| Intel® Atom™ Platform | PPC-3710A/NANO-N270/T-R/1GB-R10 | 10.4" 400 cd/m² SVGA Panel PC with Intel® Atom™ Process N270 1.6GHz/ 512KB L2 cache processor,1GB DDR2 RAM and touch screen,12VDC input |

Automatio Panel Solutions

All-in-One

3

4

SCsed

PACSmate Medical

ptional

Industrial Aluminum PPC-37 Series

PPC-3712

Intel® Celeron® M/Intel® Atom™ N270 Processor with 12.1" SVGA / XGA TFT LCD and Touchscreen

Features

- 1. 12.1" TFT SVGA/XGA LCD
- 2. Supports 2 GB (max.) 400/533 MHz DDRII SO-DIMM
- 3. Dual Ethernet
- 4. Fanless and ultra-low power consumption
- 5. Optional 802.11 b/g wireless LAN module
- 6. One CompactFlash® Type II socket
- 7. IP 65 compliant aluminum die-casting front panel
- 8. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)









Specifications



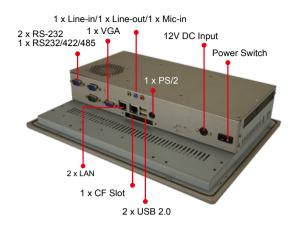


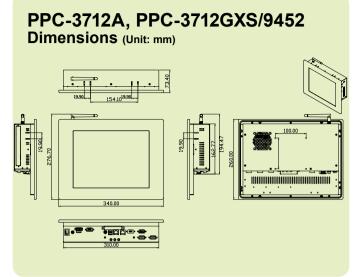
| • | | | | | Fames | Fallie |
|------------------------|----------------------------|--|--|---|---|--|
| | Model | PPC-3712GS/8522 | PPC-3712GXS/8522 | PPC-3712GXS/9452 | PPC-3712A/N270 | PPC-3712B/N270 |
| | LCD Size | | | 12.1" | | |
| | Max Resolution | 800(W) x 600(H) | | 1024(W) x | : 768(H) | |
| | Brightness (cd/m²) | 400 450 | | | | |
| | Contrast Ratio | 500:1 700:1 | | | | |
| Display | LCD Color | 262K | | | | |
| | Pixel Pitch (mm) | | | 0.240(H) x 0.240(V) | | |
| | Viewing Angle (H-V) | 140° / 110° 160° / 160° | | | | |
| | Backlight MTBF (hrs) | | | 50,000 | | |
| | SBC Model | NAN | O-8522 | NANO-9452 | NANO-945GSE-N270 | NANO-945GSE-N270 |
| Motherboard | CPU | Pentium® M / Cele | GHz (max.) Intel® eron® M with 400 MHz © Celeron® zero cache CPU | Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB | Intel® Atom™ process N | N270 1.6GHz CPU |
| | Chipset | Intel® 852GM + ICH4 Intel® 945GM + ICH7M | | Intel® 945GM + ICH7M | Intel® 945GSE + ICH7M | Intel® 945GSE + ICH7M |
| | RAM | | 00MHz DDR SO-DIMM B Max.) | Supports one 400/533/667 MHz DDRII SO-DIMM (1GB Max.) | Supports one 533MHz DDRII SO- DIMM (2GB Max.) | Supports one 533MHz DDRII SO-DIMM (2GB Max.) |
| I/O Ports and Switches | | | Jack | 2 x RS232 COM Port 1 x RS-232 COM Port (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x 12VDC input Power Jack 1 x Power Switch | 2 x RJ-45 for L 2 x USB 2.0 1 x VGA Port | DM Port e to RS-422/485) AN Port in, Line-out, MIC-In) IS) at Power Jack |
| | HDD Driver Bay | 1 x 2.5" SAT | A/IDE HDD Bay | 1 x 2. | 5" SATA HDD bay with anti-shook | |
| Driver Bay | SSD | CF Type II | | | | |
| | CD-ROM Driver Bay | Slim Type CD-ROM Bay N/A | | | | |
| Extension Slo | t | | N/A | 1 x Wireless Lan 8 | 02.11 b/g Module (internal Mini PCle i | interface) |
| | Construction Front Panel | | | Aluminum | | |
| | Construction Chasis | | | Heavy-duty Steel | | |
| Physical | Mounting | Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm | | | | |
| · | Front Panel Color | Silver (Pantone 8001C) | | | | |
| | Dimensions (WxHxD) (mm) | 340 x 260 x 73.4 | | | | |
| | Net Gross Weight | | | 6 Kg / 8 Kg | | |
| | Operation Temperature (°C) | | | -10 °C ~50 °C | | |
| Environment | Storage Temperature (°C) | | | -20°C ~60°C | | |
| LIMIOIIIIEII | Vibration | | 5~17Hz, 0.1" doub | ole amplitude displacement, 17~640Hz, 1. | 5G acceleration peak to peak | |
| | Shock | | | 10G acceleration part to part (11r | ms) | |
| Touch Screen | | | | Resistive Type 5-Wire with RS-232 in | terface | |
| Power Supply | | For BGA Model - P/N: 63000-FSP0601AI - 60W Power Adapter - Input: 90VAC-264VAC, - Output: 12VDC For Socket Model - P/N: 63000-SPU65105- 80W Power Adapter - Input: 90VAC-260VAC, - Output: 12VDC | 50/60Hz RS | Power Adapter - P/N: 63000-FSP0841ADC11118-RS - 84W Power Adapter - Input: 90VAC-264VAC, 50/60Hz - Output: 12VDC | Power Adapter - P/N: 63000-FSP0601AD101C712-RS - 60W Power Adapter - Input: 90VAC~264VAC, 50/60Hz - Output: 12VDC | For AT AC Input model: -P/N: ACE-890A-RS -86W Power Supply -Input: 90VAC ~ 264VAC -Output: 12VDC For ATX DC Input model: -P/N: ACE-709TX-RS -90W Power Supply -Input: 36VDC ~ 72VDC -Output: 12VDC |
| Front Panel Protection | | | | IP65 Compliant | | |
| Certificate | | | | Meets CE, FCC | | |
| Ethernet | | Intel® 82551E | R for 10/100Mbps | Dual PCIe Broadcom BCM5787M GbE chipsets with ASF2.0 remote control support | Dual Realtek RTL8111C | P GbE Controllers |
| Audio | | AC' 97 2.3 R | tealtek ALC 655 | AC' 97 2.3 Realtek ALC 883 | AC' 97 2.3 Realte | ek ALC 655 |
| . 10010 | | | | | | |

Option Periphe

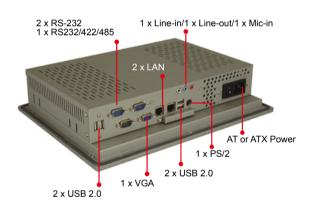
Fully Integrated I/O

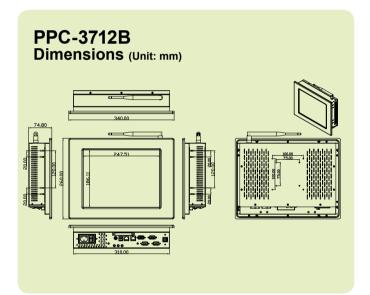
• PPC-3712A, PPC-3712GXS/9452



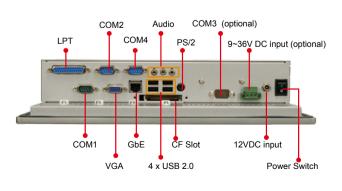


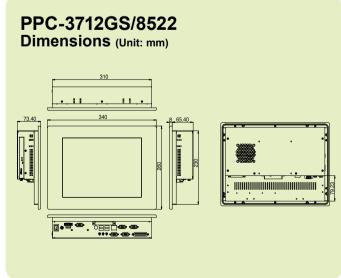
• PPC-3712B





• PPC-3712GS/8522







All New Power Selection



A: PPC-3712BA/NANO-945GSE/ACE-890A

ACE-890A

86 W AC-DC Open Frame AT Power Supply

| Input Type | 85 ~ 264 VAC Full Range | | |
|----------------|--|-------|------|
| Output Voltage | +5 V | +12 V | -12V |
| ACE-890A | 10A | 2.5 A | 0.5A |
| Efficiency | 70% | | |
| Temperature | Operating: 0 °C~ 50°C, Storage: -20 ~ 85°C | | |
| MTBF(hrs) | 268,000(ACE-890A) | | |



B: PPC-3712BT/NANO-945GSE/ACE-709TX

ACE-709TX

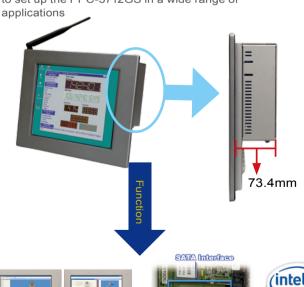
DC Input Open Frame ATX Power

| | 100 | | | |
|----------------|--|-------|------|------|
| Input Type | 36 ~ 72 VDC (ACE-709TX) | | | |
| Output Voltage | +5 V +12 V -12V +5 Vsb | | | |
| ACE-890A | 10A | 2.5 A | 0.5A | 0.5A |
| Efficiency | 70% | | | |
| Temperature | Operating : -20 °C~ 70°C , Storage : -20 °C~ 85 °C | | | |
| MTBF(hrs) | 170,000 (ACE-709TX) | | | |



High Performance & Compact Size

High performance and compact size allow users to set up the PPC-3712GS in a wide range of





SATA



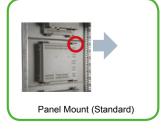
High Transmission Performance

Wall Mount (Standard)

Rack Mount (Optional)

IQ Mount Supporting List





PPC-3712-V23

Ordering Information

| Intel® | PPC-3712GS/8522-1GZ/T-R/ 512MB-R11 | 12.1" 400 cd/m² SVGA TFT panel PC with NANO-8522,CPU Celeron M 1.0GHz zero cache,Silver Color,512MB RAM and touch screen,RoHS |
|-----------------------------|--|--|
| | PPC-3712GS/8522-CM370/T-R/ 512MB-R11 | 12.1" 400 cd/m² SVGA TFT panel PC with NANO-8522,CPU Celeron M 1.5GHz,Silver Color,512MB RAM and touch screen,RoHS |
| 852GM Platform | PPC-3712GXS/8522-1GZ/T-R/ 512MB-R11 | 12.1" 450 cd/m 2 XGA TFT panel PC with NANO-8522,CPU Celeron M ULV 1GHz,Silver Color,512MB RAM and Touch Screen,RoHS |
| | PPC-3712GXS/8522-CM370/T-R/ 512MB-R11 | 12.1" 450 cd/m² XGA TFT panel PC with NANO-8522,CPU Celeron M 1.5GHz,Silver Color,512MB RAM and touch screen, RoHS |
| Intel® 945GM Platform | PPC-3712GXS/NANO-9452-CM440/ T-R/1GB | 12.1" 450 cd/m² XGA TFT panel PC with NANO-9452,1.86 GHz Intel® Celeron® M CPU,Silver color and touch screen,w/ 1GB DDR2 RAM, RoHS |
| | PPC-3712GXS/NANO-9452-T5500/ T-R/1GB | 12.1" 450 cd/m² XGA TFT panel PC with NANO-9452,1.66 GHz Intel® Core™2 Duo CPU,Silver color and touch screen,w/ 1GB DDR2 RAM, RoHS |
| | PPC-3712A/NANO-N270/T-R/1GB-R10 | 12.1" 450 cd/m² XGA panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor,1GB DDR2 RAM and touch screen,12VDC input |
| Intel® Atom™ Platform | PPC-3712BA/NANO-N270/890A/T-R/ 1GB-R10 | 12.1" 450 cd/m² XGA fanless panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor, w/ACE-890A AC input power supply, 1GB DDR2 RAM and touch screen, RoHS |
| | PPC-3712BT/NANO-N270/709TX/T-R/ 1GB-R10 | 12.1" 450 cd/m² XGA fanless panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor, w/ACE-709TX DC input power supply, 1GB DDR2 RAM and touch screen, RoHS |

Packing List

| Description | Part Number | Amount |
|---|---|--------|
| CD-ROM Installation Kit | 19B00-000032-RS | 1 |
| Power Cord | 32000-000002-RS | 1 |
| PS/2 Cable | 32000-000138-RS | 1 |
| Jumper Pack | 33100-000033-RS | 1 |
| Power Adapter (For GS Model Only) | 63000-FSP0601AD101C746-RS - 60W 63000-SPU65105-RS - 80W ACE-890A-RS - 86W ACE-709TX-RS - 90W | 1 |
| Screw Kit | 19600-000207-RS | 1 |
| HDD IDE Cable | 32200-074000-RS (PPC-3712GHS/8522) | 1 |
| Panel Mounting Kit | PK-121M | 1 |
| Panel Mounting Bracket | 41019-0 45J4-00-RS | 4 |
| Wall Mounting Kit | WK-190MS-R10 | 4 |
| User Manual & Driver CD | | |
| Touch Screen Driver CD / Touch Pen (For T-R model only) | | |

Options

| Panel Mounting Kit | PK-121M |
|--------------------|--------------|
| Wall Mounting Kit | WK-190MS-R10 |
| Rack mount kit | RK-121MS-R10 |
| LCD Monitor Arm | ARM-11-RS |
| LCD Monitor Stand | STAND-100-RS |

Automation Panel Solutions

> All-in-One Touch POS

3 Digital Signage

ideo Wall ontroller

SCased plutions

CSmate edical

ptional

Industrial Aluminum PPC-51 Series

PPC-5150

Intel® Pentium® 4 / Pentium® Dual-Core Processor with 15" XGA TFT LCD and Touchscreen



Features

- 1. 15" TFT XGA LCD
- 2. Intel® Pentium® 4 / Celeron® D CPU support FSB 533MHz up to 2.8GHz
- 3. DDR 266/333MHz DIMM memory up to 4GB
- 4. Dual Gigabit Ethernet support
- 5. One CompactFlash® Type II socket
- 6. Easy installing and mechanism design
- 7. IP 65 compliant aluminum die-casting front panel
- 8. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)





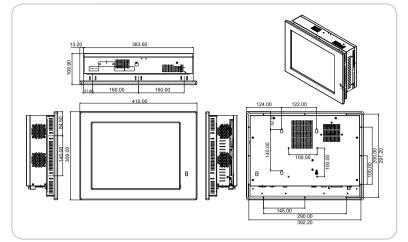




Specifications

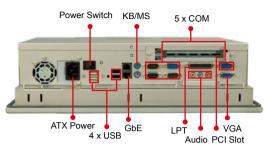
| | Model | PPC-5150GS/8520 | PPC-5150A-R11/9455 | | | |
|-----------------|----------------------------|---|---|--|--|--|
| | LCD Size | 1 | 5" | | | |
| | Max Resolution | 1024(W) x 768(H) | | | | |
| | Brightness (cd/m²) | 350 | | | | |
| Namles : | Contrast Ratio | 700 : 1 | | | | |
| Display | LCD Color | 26 | 2K | | | |
| | Pixel Pitch (mm) | 0.297(H) | x 0.297(V) | | | |
| | Viewing Angle (H-V) | 140°. | / 125° | | | |
| | Backlight MTBF (hrs) | 50, | 000 | | | |
| | SBC Model | POS-8520 | POS-9455 | | | |
| Motherboard | CPU | Socket 478 Intel® Pentium® 4, Celeron® M with 533MHz(max.) FSB | LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz | | | |
| Widtherboard | Chipset | Intel® 852GME + ICH5 | Intel® 945G + ICH7R | | | |
| | RAM | Supports two 266/333MHz DDR DIMM (2GB Max.) | Supports two 400/533/667MHz DDR2 DIMM (4GB Max.) | | | |
| I/O Ports and S | witches | 4 x RS232 COM Port 1 x RS-232/422/485 Port 2 x RJ-45 for LAN Port 4 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x Power Switch 1 x PCI Slot 1 X LPT | 4 x RS232 COM Port 1 x RS-232/422/485 Port 2 x RJ-45 for LAN Port 4 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x Power Switch 1 x AT / ATX Switch 1 x PCI Slot 1 X LPT | | | |
| Driver Bay | HDD Driver Bay | 1 x 2.5" SATA/IDE HDD bay with anti-shock (or two 2.5" SATA/IDE HDD bay without anti-shock) | 1 x 2.5" SATA HDD bay with anti-shook | | | |
| Dilvei bay | SSD | | ype II | | | |
| | CD-ROM Driver Bay | Slim Type CD-ROM Bay | | | | |
| Extension Slot | | 1 x PCI slot | 1 x PCI slot 1 x PCIe mini card 1 x PCIe by 1 slot (Option) | | | |
| | Construction Front Panel | Aluminum | | | | |
| | Construction Chasis | Heavy-duty Steel | | | | |
| Discosional | Mounting | Panel, Wall, Rack, Stand and | Arm VESA 100mm x 100mm | | | |
| Physical | Front Panel Color | Silver (Pantone 8001C) | | | | |
| | Dimension (WxHxD) (mm) | 410 x 309 x 110.5 | | | | |
| | Net Gross Weight | 7 Kg / 11 Kg | | | | |
| | Operation Temperature (°C) | -10°C ~50°C | | | | |
| | Storage Temperature (°C) | | ~60°C | | | |
| Environment | Vibration | | , 17~640Hz, 1.5G acceleration peak to peak | | | |
| | Shoock | | part to part (11ms) | | | |
| Touch Screen | | | with RS-232 interface | | | |
| Power Supply | ATX AC-Input | AC Input ATX Power Supply - P/N: ACE-4518AP-RS - 180W Power Supply - Input: 90VAC~240VAC, 50/60Hz - Output(max.): 3.3A@16.8A, 5V@12A, 12V@10A, -12V@0.8A | AC Input ATX Power Supply - P/N: ACE-A618A-RS - 180W Power Supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@14A, -12V@0.5A | | | |
| | ATX DC-Input | DC Input ATX Power Supply - P/N: ACE-4520C-RS - 200W Power Supply - Input: 24VDC, 50/60Hz - Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A | DC Input ATX Power Supply - P/N: ACE-4520C-RS - 200W Power Supply - Input: 24VDC, 50/60Hz - Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A | | | |
| Front Panel Pro | otection | IP65 Co | ompliant | | | |
| Certificate | | Meets C | DE, FCC | | | |
| Ethernet | | Dual Realtek RTL8110S GbE LAN | Dual Broadcom RTL8111CP PCIe Controllers | | | |

Dimensions (Unit: mm)

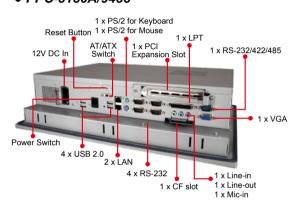


Fully Integrated I/O

• PPC-5150GS/8520



PPC-5150A/9455



Suggested Cut out size

Packing List

| Description | Part Number | Amount |
|--|-----------------------------------|--------|
| Slim Type Floppy Installation Kit | 19B00-000013-RS (PPC-5150GS/8520) | 1 |
| Slim Type CD-ROM Installation Kit | 19B00-000032-RS (PPC-5150GS/8520) | 1 |
| HDD IDE Cable (44-pin + 2 x 40-pin) | 32200-014506-RS (PPC-5150GS/8520) | 1 |
| HDD IDE Cable (44-pin + 40-pin) | 32200-019201-RS (PPC-5150GS/8520) | 1 |
| HDD SATA Cable | 32000-077000-RS (PPC-5150GS/8520) | 1 |
| CPU Cooler | 19100-000037-RS (PPC-5150GS/8520) | 1 |
| Screw Kit | 19600-000078-RS | 1 |
| Jumper Pack | 33100-000079-RS | 1 |
| Power Cord | 32000-000002-RS | 1 |
| Two 2.5" HDD Installation Kit | 41011-0397C0-00-RS | 1 |
| Panel Mounting Kit | PK-170M | 1 |
| Wall Mounting Kit | WK-190MS-R10 | 1 |
| Touch Screen Driver CD / Touch Pen (For T-R model only) | | |
| User Manual & Driver CD | | 1 |

Options

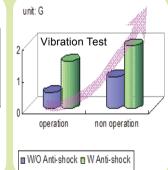
| Panel Mounting Kit | PK-170M |
|--|---|
| Wall Mounting Kit | WK-190MS-R10 |
| Rack mount kits | RK-150MS-R10 |
| LCD Monitor Arm | ARM-31-RS |
| LCD Monitor Stand | STAND-210-R11 |
| PCle x 4 slot with PCle x1 Signal Riser Card | 134D270-00-102-RS (For PPC-5150A Only) |

Anti-Shock Protection

enhances protection performance of hard drives dramatically in terms of shock and vibration tests.







Ordering Information

| Intel® 852GM Platform | PPC-5150GS/8520-P4-28G/4518AP/T-R/1GB | 15" 350 cd/m 2 XGA TFT Panel PC with POS-8520,P4-2.8GHZ FSB533,1GB RAM,ACE-4518AP and touch screen Silver color,RoHS |
|-----------------------------|--|--|
| | PPC-5150GS/8520-P4-28G/4520C/T-R/1GB | 15" 350 cd/m² XGA TFT Panel PC with POS-8520,P4-2.8GHZ FSB533,1GB RAM,ACE-4520C and touch screen Silver color,RoHS |
| Intel® 945GM Platform | PPC-5150A-R11/9455-E2160/A618A/T-R/1GB | 15" 350 cd/m² XGA Panel PC with POS-9455 R11 version,Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color,PSU ACE-A618AP, touch screen, RoHS |
| | PPC-5150A-R11/9455-E2160/4520C/T-R/1GB | 15" 350 cd/m² XGA Panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSLIACE-4500C, touch screen, PoHS |

PPC-5150-V21

Industrial Aluminum PPC-51 Series

PPC-5170

Intel® Pentium® 4 / Pentium® Dual-Core Processor with 17" SXGA TFT LCD and Touchscreen

The Control of the Co

Features

- 1. 17" TFT SXGA LCD
- 2. Intel® Pentium® 4 / Celeron® D CPU support FSB 533MHz up to 2.8GHz
- 3. DDR 266/333MHz DIMM memory up to 4GB
- 4. Dual Gigabit Ethernet support
- 5. One CompactFlash® Type II socket
- 6. Easy installing and mechanism design
- 7. IP 65 compliant aluminum die-casting front panel
- 8. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)





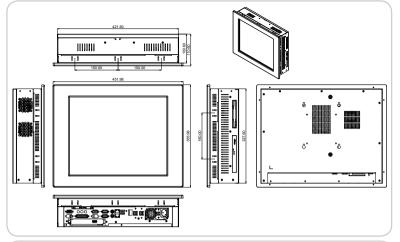


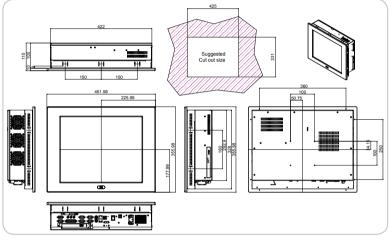


Specifications

| | Model | PPC-5170GS/8520 | PPC-5170A-R11/9455 | | |
|--|----------------------------|--|--|--|--|
| | LCD Size | 17 | 7" | | |
| | Max Resolution | 1280(W) | x 1024(H) | | |
| | Brightness (cd/m²) | 300 | | | |
| Diaplay (| Contrast Ratio | 800 : 1 | | | |
| Display | LCD Color | 16. | 7M | | |
| | Pixel Pitch (mm) | 0.264(H) > | < 0.264(V) | | |
| | Viewing Angle (H-V) | 160° / | / 160° | | |
| | Backlight MTBF (hrs) | 50,000 | | | |
| | SBC Model | POS-8520 POS-9455 | | | |
| /lotherboard | CPU | Socket 478 Intel® Pentium® 4, Celeron® M with 533MHz(max.) FSB | LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz | | |
| | Chipset | Intel® 852GME + ICH5 | Intel® 945G + ICH7R | | |
| | RAM | Supports two 266/333MHz DDR DIMM (2GB Max.) | Supports two 400/533/667MHz DDR2 DIMM (4GB Max.) | | |
| //O Ports and S | witches | 4 x RS-232 COM Port 1 x RS-232/422/485 Port 2 x RJ-45 for LAN Port 4 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x Power Switch 1 x PCI Slot | 4 x RS-232 COM Port 1 x RS-232/422/485 Port 2 x RJ-45 for LAN Port 4 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x Power Switch 1 x AT / ATX Switch 1 x PC I Slot | | |
| Driver Bay | HDD Driver Bay | 1 x 2.5" SATA/IDE HDD bay with anti-shock (or two 2.5" SATA/IDE HDD bay without anti-shock) | 1 x 2.5" SATA HDD bay with anti-shock | | |
| Dilvei Day | SSD | CF Type II | | | |
| | CD-ROM Driver Bay | Slim Type CD-ROM Bay | | | |
| Extension Slot 1 x PCI slot | | 1 x PCI slot 1 x PCIe mini card 1 x PCIe by 1 slot (Option) | | | |
| | Construction Front Panel | Alum | inum | | |
| | Construction Chasis | Heavy-do | uty Steel | | |
| | Mounting | Panel, Wall, Rack, Stand and Arm | | | |
| Physical | · · | VESA 100mm x 100mm | | | |
| | Front Panel Color | Silver (Pantone 8001C) | | | |
| | Dimension (WxHxD) (mm) | 452 x 356 x 110 | 452 x 356 x 115 | | |
| | Net Gross Weight | 8 Kg / 12 Kg | | | |
| | Operation Temperature (°C) | -10°C ~50°C | | | |
| invironment | Storage Temperature (°C) | -20°C ~60°C | | | |
| - I THE OF THE O | Vibration | 5~17Hz, 0.1" double amplitude displacement 17~640Hz, 1.5G acceleration peak to peak | | | |
| | Shoock | 10G acceleration part to part (11ms) | | | |
| ouch Screen | | Resistive Type 5-Wire with RS-232 interface | | | |
| | ATX AC-Input | AC Input ATX Power Supply - P/N: ACE-4518AP-RS - 180W Power Supply - Input: 90VAC-240VAC, 50/60Hz - Output(max.): 3.3A@16.8A, 5V@12A, 12V@10A, -12V@0.8A | AC Input ATX Power Supply - P/N: ACE-A622A-RS - 220W Power Supply - Input: 90VAC-264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A | | |
| Power Supply | ATX DC-Input | DC Input ATX Power Supply - P/N: ACE-4520C-RS - 200W Power Supply - Input: 24VDC, 50/60Hz - Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A | DC Input ATX Power Supply - P/N: ACE-4520C-RS - 200W Power Supply - Input: 24VDC, 50/60Hz - Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A | | |
| ront Panel Pro | tection | IP65 Co | • | | |
| Certificate | | Meets C | • | | |
| thernet | | Dual Realtek RTL8110S GbE LAN | Dual Broadcom RTL8111CP PCIe Controllers | | |
| ludio | | AC' 97 2.3 Realtek ALC 655 | AC' 97 2.3 Realtek ALC 883 | | |

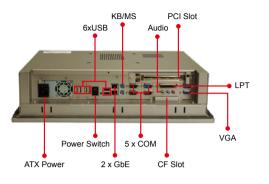
Dimensions (Unit: mm)



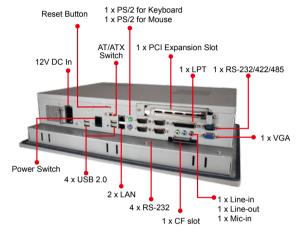


Fully Integrated I/O

• PPC-5170G/8520



• PPC-5170A/9455



Packing List

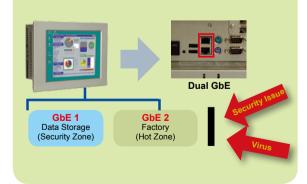
| Description | Part Number | Amount |
|--|-----------------------------------|--------|
| Slim Type Floppy Installation Kit | 19B00-000013-RS (PPC-5170GS/8520) | 1 |
| Slim Type CD-ROM Installation Kit | 19B00-000032-RS | 1 |
| HDD IDE Cable (44-pin + 2 x 40-pin) | 32200-014506-RS (PPC-5170GS/8520) | 1 |
| HDD IDE Cable (44-pin + 40-pin) | 32200-019201-RS (PPC-5170GS/8520) | 1 |
| HDD SATA Cable | 32000-077000-RS | 1 |
| CPU Cooler | 19100-000037-RS (PPC-5170GS/8520) | 1 |
| Two 2.5" HDD Installation Kit | 41011-0397C0-00-RS | 1 |
| Screw Kit | 19600-000078-RS | 1 |
| Jumper Pack | 33100-000079-RS | 1 |
| Power Cord | 32000-000002-RS | 1 |
| Panel Mounting Kit | PK-170M | 1 |
| Wall Mounting Kit | WK-190MS-R10 | 1 |
| Touch Screen Driver CD / Touch Pen (For T-R model only) | | |
| User Manual & Driver CD | | 1 |

Options

| Panel Mounting Kit | PK-170M |
|--|--|
| Wall Mounting Kit | WK-190MS-R10 |
| Rack mount kits | RK-170MS-R10 |
| LCD Monitor Arm | ARM-31-RS |
| LCD Monitor Stand | STAND-210-R11 |
| PCle x 4 slot with PCle x1 Signal Riser Card | 134D270-00-102-RS (For PPC-5170A Only) |

Dual 10/100/Gigabit Ethernet Support

PPC-5170GS provides dual independent gigabit LAN ports. In HMI application environments, many system integrators prefer dual independent LAN to allocate factory zone and data storage zone to reduce the network collision and crash, or virus infection.



Ordering Information

| Intel® 852GM Platform | PPC-5170GS/8520-P4-28G/4518AP/T-R/1GB |
|-----------------------------|--|
| | PPC-5170GS/8520-P4-28G/4520C/T-R/1GB |
| Intel® 945GM Platform | PPC-5170A-R11/9455-E2160/A622A/T-R/1GB |
| | PPC-5170A-R11/9455-F2160/4520C/T-R/1GB |

17" 300 cd/m² SXGA TFT Panel PC with POS-8520,P4-2.8GHZ FSB533,1GB RAM,ACE-4518AP and touch screen Silver color,RoHS

17" 300 cd/m² SXGA TFT Panel PC with POS-8520,P4-2.8GHZ FSB533,1GB RAM,ACE-4520C and touch screen Silver color,RoHS

 $17^{\rm n}$ 300 cd/m² SXGA panel PC with POS-9455 R11 version,Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color,PSU ACE-A622A, touch screen, RoHS

 $17"\,300\,cd/m^2\,SXGA\,panel\,PC\,with\,POS-9455\,R11\,\,version, Pentium@\,\,Dual-Core\,\,E2160\,\,1.8GHz\,CPU,\,1GB\,\,DDR2\,\,RAM,\,Silver\,color,\,PSU\,\,ACE-4520C,\,touch\,screen,\,\,RoHS$

Automatic Panel Solutions

2

igital ignage

Video Wall Controller

> SCsed olutions

6 CSmate

ptional

Industrial Aluminum PPC-51 Series

PPC-5190

Intel® Pentium® 4/Pentium® Dual-Core Processor with 19" SXGA TFT LCD and Touchscreen



Features

- 1. 19" TFT SXGA LCD
- 2. Intel® Pentium® 4 / Celeron® D CPU support FSB 533MHz up to 2.8GHz
- 3. DDR 266/333MHz DIMM memory up to 4GB
- 4. Dual Gigabit Ethernet support
- 5. One Compact Flash® Type II socket
- 6. Easy installing and mechanism design
- 7. IP 65 compliant aluminum die-casting front panel
- 8. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)







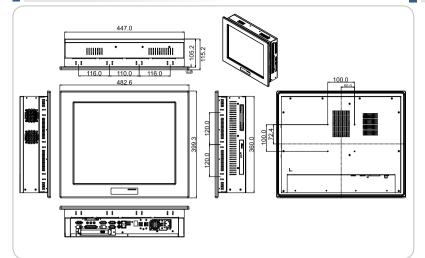


Specifications

| | Model | PPC-5190GS/8520 | PPC-5190A-R11/9455 | | | |
|------------------------|----------------------------|---|---|--|--|--|
| | LCD Size | 19° | | | | |
| | Max Resolution | 1280(W) | x 1024(H) | | | |
| | Brightness (cd/m²) | 300 | | | | |
| Diamlau | Contrast Ratio | 700 : 1 | | | | |
| Display | LCD Color | 16.7M | | | | |
| | Pixel Pitch (mm) | 0.294(H) | x 0.294(V) | | | |
| | Viewing Angle (H-V) | 170° | / 160° | | | |
| | Backlight MTBF (hrs) | 50,000 | | | | |
| | SBC Model | POS-8520 POS-9455 | | | | |
| Motherboard | CPU | Socket 478 Intel® Pentium® 4, Celeron M with 533MHz(max.) FSB | LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/106 MHz | | | |
| | Chipset | Intel® 852GME + ICH5 | Intel® 945G + ICH7R | | | |
| | RAM | Supports two 266/333MHz DDR DIMM (2GB Max.) | Supports two 400/533/667MHz DDR2 DIMM (4GB Max.) | | | |
| I/O Ports and St | witches | 4 x RS-232 COM Port 1 x RS-232/422/485 Port 2 x RJ-45 for LAN Port 6 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x Power Switch 1 x PCI Slot | 4 x RS-232 COM Port 1 x RS-232/422/485 Port 2 x RJ-45 for LAN Port 6 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x Power Switch 1 x AT / ATX Switch 1 x PCI Slot | | | |
| D: D | HDD Driver Bay | 1 x 2.5" SATA/IDE HDD bay with anti-shock 1 x 2.5" SATA HDD bay with anti-shock (or two 2.5" SATA/IDE HDD bay without anti-shock) (or two 2.5" SATA/IDE HDD bay without anti-shock) | | | | |
| Driver Bay | SSD | CF T | ype II | | | |
| CD-ROM Driver Bay | | Slim Type CD-ROM Bay | | | | |
| Extension Slot | | 1 x PCI slot | 1 x PCI slot, 1 x PCIe mini card, 1 x PCIe by 1 slot (Option) | | | |
| | Construction Front Panel | Aluminum | | | | |
| | Construction Chasis | Heavy-duty Steel | | | | |
| Physical | Mounting | Panel, Wall, Rack, Stand and | Arm VESA 100mm x 100mm | | | |
| i ilysicai | Front Panel Color | Silver (Pantone 8001C) | | | | |
| | Dimension (WxHxD) (mm) | 483 x 399 x 115.2 483 x 399 x 115.2 | | | | |
| | Net Gross Weight | 12.6 Kg / 18.2 Kg | | | | |
| | Operation Temperature (°C) | -10°C | ~50°C | | | |
| Environment | Storage Temperature (°C) | -20°C | ~60°C | | | |
| LIMIOIIIIEII | Vibration | 5~17Hz, 0.1" double amplitude displacement | / 17~640Hz, 1.5G acceleration peak to peak | | | |
| | Shoock | 10G acceleration | 10G acceleration part to part (11ms) | | | |
| Touch Screen | | Resistive Type 5-Wire | with RS-232 interface | | | |
| ATX AC-Input | | AC Input ATX Power Supply - P/N: ACE-4518AP-RS - 180W Power Supply - Input: 90VAC-240VAC, 50/60Hz - Output(max.): 3.3A@16.8A, 5V@12A, 12V@10A, -12V@0.8A | AC Input ATX Power Supply - P/N: ACE-A622A-RS - 220W Power Supply - Input: 90VAC-264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A | | | |
| Power Supply | ATX DC-Input | DC Input ATX Power Supply - P/N: ACE-4520C-RS - 200W Power Supply - Input: 24VDC, 50/60Hz - Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A | DC Input ATX Power Supply - P/N: ACE-4520C-RS - 200W Power Supply - Input: 24VDC, 50/60Hz - Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A | | | |
| Front Panel Protection | | IP65 Compliant | | | | |
| Certificate | | Meets CE, FCC | | | | |
| Ethernet | | Dual Realtek RTL8110S GbE LAN | Dual Broadcom RTL8111CP PCIe Controllers | | | |
| Audio | | AC' 97 2.3 Realtek ALC 655 | AC' 97 2.3 Realtek ALC 883 | | | |

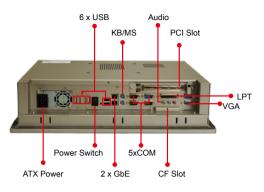
Optiona Peripher

Dimensions (Unit: mm)

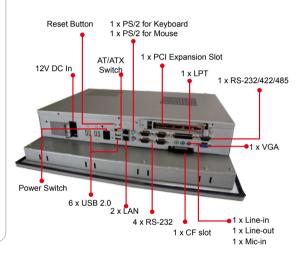


Fully Integrated I/O

• PPC-5190G/8520



• PPC-5190A/9455



Packing List

| Description | Part Number | Amount |
|-------------------------------------|-----------------------------------|--------|
| Slim Type Floppy Installation Kit | 19B00-000013-RS (PPC-5170GS/8520) | 1 |
| Slim Type CD-ROM Installation Kit | 19B00-000032-RS | 1 |
| HDD IDE Cable (44-pin + 2 x 40-pin) | 32200-014506-RS (PPC-5170GS/8520) | 1 |
| HDD IDE Cable (44-pin + 40-pin) | 32200-019201-RS (PPC-5170GS/8520) | 1 |
| HDD SATA Cable | 32000-077000-RS | 1 |
| CPU Cooler | 19100-000037-RS (PPC-5170GS/8520) | 1 |
| Two 2.5" HDD Installation Kit | 41011-0397C0-00-RS | 1 |
| Screw Kit | 19600-000078-RS | 1 |
| Jumper Pack | 33100-000079-RS | 1 |
| Power Cord | 32000-000002-RS | 1 |
| Panel Mounting Kit | PK-190M | 1 |
| Wall Mounting Kit WK-190MS-R10 | | 1 |
| Touch Screen Driver CD / Touch Pen | | |
| User Manual & Driver CD | | 1 |

Options

| Panel Mounting Kit | PK-190M |
|--|--|
| Wall Mounting Kit | WK-190MS-R10 |
| Rack mount kits | RK-190MS-R10 |
| LCD Monitor Arm | ARM-31-RS |
| LCD Monitor Stand | STAND-210-R11 |
| PCle x 4 slot with PCle x1 Signal Riser Card | 134D270-00-102-RS (For PPC-5190A Only) |

Big Screen for Multi-Display

PPC-5190GS equips 19" TFT LCD which is ideal for multi-display requirement such as digital surveillance or multi-operating system. With multi-display configuration, users can handle more tasks at the same time as well as saving resource and space.



Ordering Information

| Intel® 852GM Platform | PPC-5190GS/8520-P4-28G/4518AP/T-R/1GB | 19" 300 cd/m² SXGA TFT Panel PC with POS-8520,P4-2.8GHZ FSB533,1GB RAM,ACE-4518AP and touch screen Silver color,RoHS |
|-----------------------------|--|---|
| | PPC-5190GS/8520-P4-28G/4520C/T-R/1GB | 19" 300 cd/m² SXGA TFT Panel PC with POS-8520,P4-2.8GHZ FSB533,1GB RAM,ACE-4520C and touch screen Silver color,RoHS |
| 945GM | PPC-5190A-R11/9455-E2160/A622A/T-R/1GB | 19" 300cd/m² SXGA panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-A622A, touch screen, RoHS |
| | PPC-5190A-R11/9455-E2160/4520C/T-R/1GB | 19" 300 cd/m² SXGA panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-4520C, touch screen. RoHS |

PPC-5190-V23

Automatic Panel Solutions

> 2 All-in-One

> > 3 igital gnage

ideo Wall ontroller

> SCed

6 CSmate

7

Industrial Aluminum PPC-53 Series

PPC-5350

Intel® Celeron® M / Pentium® M Processor with 15" TFT LCD and Touchscreen



Features

- 1. 15" TFT LCD touch Panel PC
- 2. New upgrade model from PPC-5350/A300 model
- 3. Aluminum die-casting IP 65
- 4. Intel® Celeron® M mobile CPU with 400 MHz FSB supported
- 5. Two DDR2 SO DIMM 667 MHz SDRAM DIMM support up to 2GB
- 6. Two SATA connectors supported by ICH6M
- 7. Dual PCIe Gigabit Ethernet support
- 8. High speed express card and PCIe mini card support
- 9. Optional 802.11 b/g PCIe mini wireless kit
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)













Specifications

| | Model | PPC-5350GS/A300 | PPC-5350GS/A311 | | | | |
|-------------------|----------------------------|---|---|--|--|--|--|
| | LCD Size | 15" | | | | | |
| | Max Resolution | 1024(W) | x 768(H) | | | | |
| | Brightness (cd/m²) | 350 | | | | | |
| | Contrast Ratio | 700 : 1 | | | | | |
| Display | LCD Color | 16.2M | | | | | |
| | Pixel Pitch (mm) | 0.297(H) | x 0.297(V) | | | | |
| | Viewing Angle (H-V) | 140° / 125° | | | | | |
| | Backlight MTBF (hrs) | 50,000 | | | | | |
| | SBC Model | A300 | A311 | | | | |
| Motherboard | CPU | Socket 479 Intel® Pentium® 4, Celeron M with 400MHz(max.) FSB 1 GHz ULV Intel Celeron zero cache CPU | Socket 479 Intel® Pentium® M, Celeron® M with 400/533MHz(max.) FSI GHz ULV Intel® Cele ron zero cache CPU | | | | |
| Wouldiboard | Chipset | Intel® 855GME + ICH4 | Intel® 910GMLE + ICH6M | | | | |
| | RAM | Supports two 266/333MHz DDR DIMM (2GB Max.) | Supports two 400/533MHz DDR2 DIMM (2GB Max.) | | | | |
| I/O Ports and St | vitches | 5 x RS-232 COM Port 2 x RJ-45 for LAN Port 4 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x Power Switch 1 x AT / ATX Switch 1 x DVI port 1 x PCI Slot | 5 x RS-232 COM Port 2 x RJ-45 for LAN Port 4 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x Power Switch 1 x AT / ATX Switch 1 x DVI port 1 x PCI Slot | | | | |
| | HDD Driver Bay | 1 x 2.5" SATA/IDE HDD bay with anti-shook | 1 x 2.5" SATA HDD bay with anti-shook | | | | |
| Driver Bay | SSD | CF T | ype II | | | | |
| CD-ROM Driver Bay | | Slim Type CD-ROM Bay | | | | | |
| Extension Slot | | 1 x PCI slot | 1 x PCI slot 1 x PCIe mini card | | | | |
| | Construction Front Panel | Alum | ninum | | | | |
| | Construction Chasis | Heavy-d | luty Steel | | | | |
| Physical | Mounting | Panel, Wall, Rack, Stand and | Arm ,VESA 100mm x 100mm | | | | |
| riiysicai | Front Panel Color | Silver (Pant | tone 8001C) | | | | |
| | Dimension (WxHxD) (mm) | 410 x 309 x 110.5 | | | | | |
| | Net Gross Weight | 8 Kg / 12 Kg | 7 Kg / 11 Kg | | | | |
| | Operation Temperature (°C) | -10°C ~50°C | | | | | |
| Environment | Storage Temperature (°C) | -20°C ~60°C | | | | | |
| Limioiiiieii | Vibration | 5~17Hz, 0.1" double amplitude displacement | : / 17~640Hz, 1.5G acceleration peak to peak | | | | |
| | Shoock | 10G acceleration part to part (11ms) | | | | | |
| Touch Screen | | Resistive Type 5-Wire with RS-232 interface | | | | | |
| Power Supply | ATX AC-Input | AC Input ATX Power Supply - P/N: ACE-4518AP-RS - 180W Power Supply - Input: 90VAC-240VAC, 50/60Hz - Output(max.): 3.3A@16.8A, 5V@12A, 12V@10A, -12V@0.8A | | | | | |
| т очет опрыу | ATX DC-Input | DC Input ATX Power Supply - PN: ACE-815C-RS - 100W Power Supply - Input: 24VDC, 50/60Hz - Output(max.): 3.3A@4A, 5V@13A, 12V@2.5A, -12V@0.3A | | | | | |
| Front Panel Pro | tection | | ompliant | | | | |
| Certificate | | | DE, FCC | | | | |
| Ethernet | | Dual Realtek RTL81 | 10S GbE Controllers | | | | |
| Audio | | AC' 97 2.3 Realtek ALC 655 AC' 97 2.3 Realtek ALC 655 | | | | | |

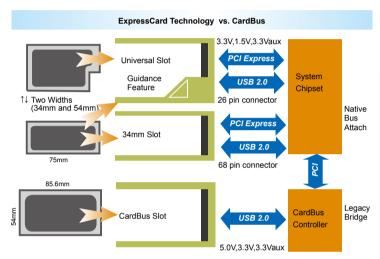
New PPC-5350 Features

Serial ATA is the next -generation internal storage interface designed to replace parallel ATA technology. Serial ATA was introduced at 150Mbytes/sec. New PPC-5350/A311 supports two native SATA ports without additional driver requirement which is highly increasing device compatibility in all different OS

Native serial ATA interface support NEW PPC-5350/A311 PPC-5350/A300

New ExpressCard Features

ExpressCard is a hardware standard replacing PC cards (also known as PCMCIA cards), both developed by the Personal Computer Memory Card International Association (PCMCIA). The host device supports both PCI Express and USB 2.0 connectivity through the Express Card slot, and each card uses whichever the designer feels most appropriate to the task. The cards are hot-pluggable.



| ExpressCard Modules | Brand |
|--|---|
| FireWire | Abcom, Addonics, Belkin, SIIG |
| Memory Card Adapter | Atech Flash, Buffalo, Delkin, Griffin, Hagiwara |
| TV tuners | AverMedia, HP |
| WLAN/WWAN/Smart Card/SATA | Abcom, Addonics, Belkin, SIIG, Atech Flash, Buffalo, Delkin, Gemplus, Hagiwara, Novatel, Rotoc, SCM |
| Bluetooth device | Newton |
| Expansion chassis and docking stations | Belkin |
| Remote control devices | HP, Interlink |

New PPC-5350/A311 Expansions

Flexible extension interface: 1 x PCI slot, 1 x PCIe mini slot, 1 x ExpressCard

PPC-5350 provides most rich expansion interfaces, including one standard 32 bit PCI slot for various PCI add-on card, one PCIe mini card socket for small form factor extender like wireless module, and one express slot for expansion.







PCI

New PPC-5350/A311 Placement

All new PPC-5350/A311 system board is designed with native SATA and PCIe interfaces supported from chipset directly with no extra driver requirement. All internal connector placements are redesigned for easy installation and better internal air flow inside.





Automation Panel Solutions

2

3

ligital ignage

Video Wall Controller

> ISCased olutions

ACSmate edical

Optional

automation danel colutions

All-in-One

3 Digital Signage

Video Wall Controller

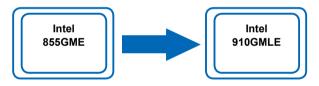
RISCbased Solution

ACSmat Medical

Optional Peripherals

| Model | PPC-5350GS/A311 | PPC-5350GS/A300 |
|---------------|---|--|
| CPU | Socket 479 with 400/533 MHz FSB Intel® Pentium® M Processor Intel® Celeron® M processor | Socket 479 400 MHz FSBIntel® Pentium® M Processor Intel® Celeron® M processor |
| NB | Mobile Intel® 910GMLE Express Chipset | Mobile Intel® 855GME Express Chipset |
| SB | ICH6M | ICH4 |
| Display | CRT integrated in 910GMLE D-SUB CONNECTORChrontel CH7307C DVI CONNECTOR910GMLE for LVDS Panel Interface | CRT integrated in 855GME D-SUB CONNECTORSilicon image DVI CONNECTOR855GME for LVDS Panel Interface |
| Memory | Two DDR2 667MHz, Up to 2GB | Two DDR 266/333MHz, Up to 2GB |
| SSD | CF Type II Transition to | CF Type II |
| Audio | AC'97 codec with Realtek ALC655 | Realtek ALC655 with AC'97 codec |
| LAN | Dual PCIe Realtek RTL8111CP GbE chipsets | Dual RealTek RTL8110S GbE chipsets |
| СОМ | 5 COM ports | 5 COM ports (5x RS-232) |
| USB 2.0 | 4 x USB 2.0 | 4 x USB 2.0 |
| IDE | 1 X IDE 40 pin connector. (From ICH6M)1 x CF type II (From ICH6M) | 2 X IDE 40 pin connector. 1 x CF type II |
| SATA | 2 x SATA connector by ICH6M | 2 x SATA connector by ALIM5283 |
| FAN connector | 4pin Smart fan | 3pin fan |
| Expansion | ExpressCard x 1 PCI x1 PCIe mini card on board x1 | PCMCIA X 1 PCI x1 mini PCI x1 |

Upgrading Performance



Featuring the Intel® Graphics Media Accelerator 900, the 910GMLE chipset in PPC-5350/A311 enables 2x the graphics performance of the previous generation of platforms based on the Intel® ® 855GME chipset in PPC-5350/A300.

Extra CPU support list:

| Packag | је Туре | Brand Name | CPU No. | Clock Speed | FSB (MHz) | L2 | TDP | Chipset | |
|--------------------|----------------|---------------|---------|----------------|--------------|-----|--------|---------|--|
| | | | | 780 | 2.26G | | 2M | 27W | |
| Socket 479 90nM | / Pentium M | 770 | 2.13G | | 2M | 27W | | | |
| | | 760 | 2G | | 2M | 27W | | | |
| | | 755 | 2G | 533 | 2M | 27W | 915GME | | |
| | | 750 | 1.86G | | 2M | 27W | | | |
| | | 740 | 1.73G | | 2M | 27W | | | |
| | | | 730 | 1.6G | | 2M | 27W | | |

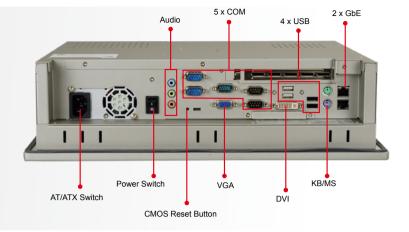
Comparison Graphic Core

| Chipset | 910GMLE | 855GME |
|-----------------------------|--|--|
| DirectX Support | 9 | 7.1 |
| OpenGL Support | 1.4 | 1.3 |
| Core Clock | 333/320 MHz 200 MHz 166/160 MHz 133 MHz | 250 MHz 200 MHz 166 MHz 133 MHz |
| Pixel Pipes | 4 | 1 |
| Display Support | Dual Independent | Dual Independent |
| Video Memory | DVMT 3.0 | DVMT 2.0 |
| Memory Bandwidth 8.5 GB/sec | | 2.6 GB/sec |
| Max. Resolution | QXGA 75 Hz 2048x1535 | QXGA 60 Hz 2048x1535 |

| Features / Options | DDR | DDR2 | DDR2 Advantages |
|--------------------|--------------------|------------------------------|--|
| Voltage | 2.5V / 2.5V I/O | 1.8V / 1.8V I/O | Reduces memory system power demand |
| Densities | 128MB-1GB | 256MB-4GB | High-density components enable large memory subsystems |
| Speed (data pin) | 200, 266, 333, 400 | 400, 533, 667 | Migration to higher speed IO |
| Read Latency | 2, 2.5, 3 CLK | CL + AL / CL = (3,4,5) | Eliminating one-half clock helps speed internal DRAM logic and improves yields |
| Additive Latency | N/A | AL options (0,1,2,3,4) | Mainly used in Server applications to improve command bus efficiency |
| Write Latency | 1 clock | read latency-1 | improves command bus efficiency |
| Data Strobes | Single-ended | Differential or single-ended | Improves system timing margin by reducing strobe cross-talk |

Fully Integrated I/O

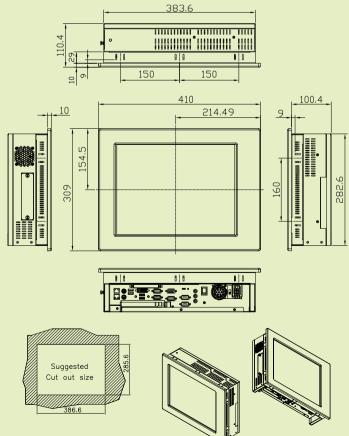




Audio
PCI slot
PCI slot
ATX Power
Power Switch
CF slot
KB/MS

• PPC-5350GS/A300

PPC-5350GS Dimensions (Unit: mm)



Automation Panel Solutions

2

3 ligital lignage

ideo Wall ontroller

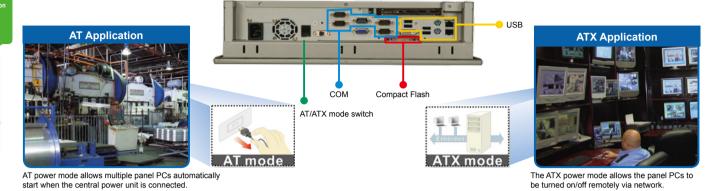
> SCsed utions

6 ACSmate edical

etional ripherals

Rich I/O in PPC-5350/A311

Fully I/O function support:6 x COM (One for Touch screen), 4 x USB, 1 x CF socket PPC-5350 combines multiple traditional UART ports (five RS-232 ports) and four most popular USB 2.0 ports for IO extension. Additionally, PPC-5350 also support one CompactFlash® Type II socket for storage usage.



Ordering Information

| Intel® Celeron® M 1GHz Platform | PPC-5350GS-R11/A300-1GZ/T-R/ 512MB | 15" 350 cd/m² XGA TFT LCD panel PC with A300,ULV Celeron M 1GHz CPU,512MB RAM and Touch screen,ACE-4518AP,RoHS |
|---|--|---|
| | PPC-5350GS-R11/A300-CM370/T-R/ 1GB | 15" 350 cd/m² XGA TFT LCD panel PC with A300 main board,CPU Celeron M 1.5Ghz,1GB RAM and Touch screen,ACE-4518AP,RoHS |
| | PPC-5350GS/A300-1GZ/ACE-815C/ T-R/512MB | 15" 350 cd/m² XGA TFT LCD panel PC with A300,ULV Celeron M 1GHz CPU,512MB RAM,Touch screen and ACE-815C (24VDC input,100W power supply),RoHS |
| | PPC-5350GS/A300-CM370/ACE- 815C/T-R/1GB | 15" 350 cd/m² XGA TFT LCD panel PC with A300 main board, CPU Celeron M 1.5Ghz,1GB RAM, Touch screen and ACE-815C (24VDC input,100W power supply), RoHS |
| WL-KIT01 | | 802.11 B/G Mini-PCI interface WiFi module with RF cable and antenna, RoHS |
| | PPC-5350GS/A311-1GZ/4518AP/ T-R/1GB-R10 | 15" 350 cd/m² XGA panel PC with A311 system board,Intel® Celeron M 1GHz Zero Cache, 1GB RAM,Touch screen and ATX AC input power supply,ACE-4518AP |
| Intel® Celeron® M 1GHz Zero Cach Platform | PPC-5350GS/A311-CM370/4518AP/ T-R/1GB-R10 | 15" 350 cd/m² XGA panel PC with A311 system board, Intel® Celeron M 1.5GHz,1GB RAM, Touch screen and ATX AC input power supply,ACE-4518AP |
| | PPC-5350GSD/A311-1GZ/815C/T-R/ 1GB-R10 | 15" 350 cd/m² XGA panel PC with A311 system board,Intel® Celeron®M 1GHz Zero Cache, 1GB RAM,Touch screen and ATX DC input Power supply,ACE-815C(24VDC input. 100W),RoHS |
| | PPC-5350GSD/A311-CM370/815C/ T-R/1GB-R10 | 15" 350 cd/m² XGA panel PC with A311 system board, Intel® Celeron®M 1.5GHz, 1GB RAM, Touch screen and ATX DC input Power supply, ACE-815C (24VDC input. 100W), RoHS |

Options

| Panel Mounting Kit | PK-170M |
|--------------------|---------------|
| Wall Mounting Kit | WK-190MS-R10 |
| Rack mount kits | RK-150MS-R10 |
| LCD Monitor Arm | ARM-31-RS |
| LCD Monitor Stand | STAND-210-R11 |

Packing List

| Description | Part Number | Amount |
|--------------------------------------|---------------------------------------|--------|
| Slim Type CD-ROM Installation Kit | 19B00-000032-RS | 1 |
| HDD IDE Cable | 32200-069900-RS (PPC- 5350GS/A300) | 1 |
| HDD SATA Cable | 32000-077000-RS | 1 |
| Screw Kit | 19600-000078-RS | 1 |
| Jumper Pack | 33100-000079-RS | 1 |
| Power Cord | 32000-000002-RS | 1 |
| Panel Mounting Kit | PK-170M | 1 |
| Wall Mounting Kit | WK-190MS-R10 | 1 |
| Touch Screen Driver CD / Touch Pen | | 1 |
| User Manual & Driver CD | | 1 |