

IEI Embedded System Platform Solutions

As the leading hardware provider in Embedded SBC, IEI continues to extend the product footprint from component level to system integration service. Our strong knowledge of market and technology innovation offers reliability, flexibility and interoperability for all of our embedded products with choices of size, performance and features.



NEW for 2010

High Performance Signage

ECN-381B ► with NANO-GM45A2 inside

- ◆ As the latest 3-chip mobile solution, Intel® GM45 has substantial improvement on graphic and media related features over 945GME including HD display and Blu-ray support as well as MPEG-2 decoding acceleration.
- ◆ VGA and HDMI dual display interface which supports high resolution, independent screen with audio output.
- ◆ IEEE 1394 supports industrial high speed camera.



Datasheet on **2-8**

Entry Level Digital Signage

uIBX-200-R10/Z510P ► with Intel® Atom™ Processor Z510P 1.1GHz

- ◆ Built-in decoder which is capable of displaying high resolution multimedia advertisements.
- ◆ Intel US15WP compares with another Intel Atom family chipset 945GSE+N270 running 3DMark under Windows XP, the power consumption of US15WP is 40% lower than of 945GSE+N270.
- ◆ The compact size and fanless design makes it very flexible in field installation for application with limited space.



Datasheet on **2-11**

IP67 Heavy Industrial

WStrider-200A ► with Intel® Atom™ Processor Z510PT 1.1GHz

- ◆ Full IP67 fanless embedded system provides full IP67 protection including connectors and cables.
- ◆ With watertight-to-PC interface cables, Wstrider-200A can be easily connected to PC peripheral devices, operating just like common PC.
- ◆ Two channels video capture.
- ◆ Fanless, rugged design for Industrial applications



Datasheet on **2-5**

Embedded Chassis

EBC-3000/3100 ► for Mini-ITX SBC chassis



Datasheet on **2-29**



- ◆ Drive Bays
- ◆ Full height Expansion Slot

Datasheet on **2-30**

EBC-2101 ► for 4" EPIC SBC chassis



Datasheet on **2-27**

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Industrial Computing Solutions

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Industrial Data Collector and Controller

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Power Supply/Peripherals

AUPS ready Embedded System

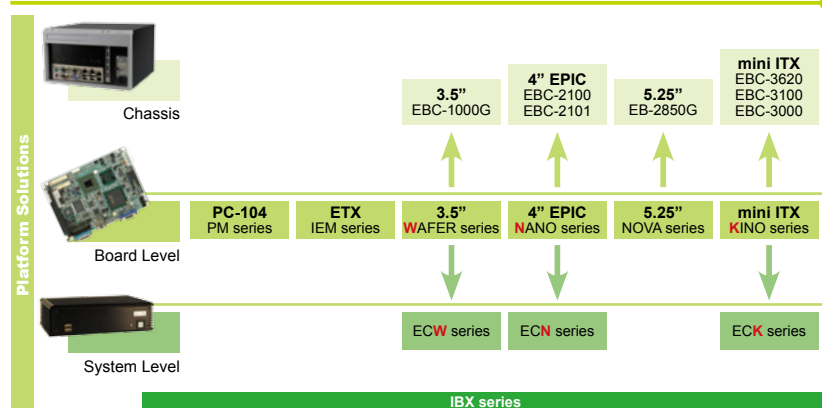


IBX-600 with IEI AUPS Sub-system Design Concept

- Onboard DC-to-DC module**
 - high converting efficiency
 - with battery charger circuit
- Wide range DC input**
 - accepts 12VDC to 24VDC
- Li-Ion smart battery**
 - 2S2P 7.4V 3800mAH smart battery provides backup power while main power source failure
- Value-added software included**
 - AUPS network management
 - Web-based remote control
 - Real time monitoring

The smart battery kits in IBX-600 can be easily accessed at the bottom on the system. Battery pack can be replaced by simply removing four screws.

IEI Embedded Solutions Overview



Naming Rule

EC Series

ECW-171ASE0-WD

SBC form factor code: 3.5" WAFER, 4" EPIC NANO, Mini-ITX KINO

Design code: 0: support CompactFlash™ as storage only, 1: support 2.5" hard drive

Input voltage: Add-on card code

SBC code

Color code: silver

0: with fan, A: with fan, B: fanless, Other: by model definition

EBC Series

EBC-3100

SBC form factor code: 1: 3.5", 2: 4" EPIC, 3: Mini-ITX

Features code: The number of slot for expansion or CompactFlash™

IBX Series

IBX-500A

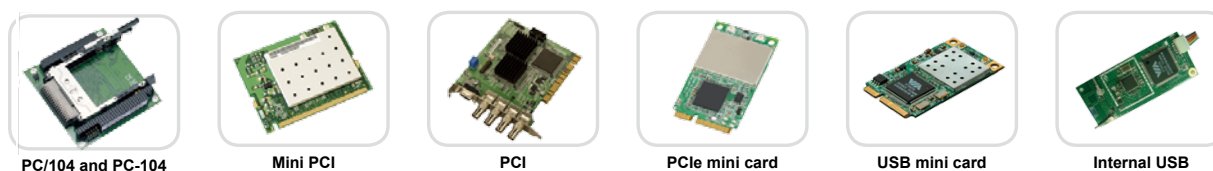
Design code

Platform code: 0:AMD, 2:VIA, 5:Intel

Features code

Versatile Expansion Interface

IEI embedded system provides various kind of expansion interfaces inside compact enclosure, provides the flexibility of function enhancement and the ease of system integration.



Embedded OS Building Service

Windows® Embedded Standard (Windows® XP Embedded)

Storage support



- Windows OS image with license
- Thin client turnkey solutions

New Features in WES:

- Microsoft Silverlight
- .NET Framework 3.5
- Windows Media Player 11
- Internet Explorer 7



Windows® Embedded Compact (Windows® CE)

IEI provides the complete Windows Embedded Compact (Windows CE)solutions including Windows CE5.0, Windows CE6.0, and the latest release of Windows Embedded CE 6.0 R3, which delivers a rich browsing experience, and access critical information from multiple document formats, make the device makers can bring their device to market quickly and efficiently.

Storage support



- Windows OS image with license
- Optional Board Support Package (BSP) for customers to customize their own OS image.
- Attached Software Development Kit (SDK) for embedded Visual C++ to program Windows CE application.



Embedded System Selection Guide



		Model no.	Index	MB model no.	Processor	Chipset	Display	Ethernet port	Ethernet speed	USB	LPT
	4"	IBX-100-LX2	2-20	NANO-LX2	AMD® Geode™ LX800 500 MHz	AMD® CS5536	VGA	2	10/100M	2	
	4"	IBX-100-GX2	2-20	NANO-GX2	AMD Geode™ GX466 333 MHz	AMD® CS5536	VGA	1	10/100M	2	
	3.5"	ECW-180BS1	2-16	WAFER-LX	AMD® Geode™ LX800 500 MHz	AMD® CS5536	VGA	2	10/100M	2	
	3.5"	ECW-181BS1	2-16	WAFER-LX	AMD® Geode™ LX800 500 MHz	AMD® CS5536	VGA	2	10/100M	2	
		IBX-500A	2-21	AFLMB-LX	AMD® Geode™ LX800 500 MHz	AMD® CS5536	VGA	2	10/100M	2	



		ulBX-200-R10/Z510P	2-5	System board	Intel® Atom™ Z510P 1.1GHz	Intel® US15WP	VGA	1	GbE	4	
	3.5"	ECW-281B-8522	2-17	WAFER-8522	ULV Intel® Celeron® M 1 GHz 512KB/zero cache	Intel® 852GM + ICH4	VGA	2	GbE	3/4	
	3.5"	ECW-281B-945GSE	2-18	WAFER-945GSE	Intel® Atom® processor N270 1.6GHz	Intel® 945GSE + ICH7M	VGA	2	GbE	4	
	3.5"	ECW-281B-945GSE2	2-18	WAFER-945GSE	Intel® Atom® processor N270 1.6GHz	Intel® 945GSE + ICH7M	Dual VGA	2	GbE	4	
	4"	IBX-530-945GSE	2-22	AFLMB-945GSE	Intel® Atom™ processor N270 1.6GHz	Intel® 945GSE + ICH7M	VGA	2	GbE	4	
	4"	ECN-171ASF0	2-15	NANO-9452	Socket M Intel® Core™ Duo/Solo with 667 MHz FSB	Intel® 945GM + ICH7M	VGA HDTV	2	GbE	2	
	4"	ECN-171BSE0	2-15	NANO-8522	Intel® Pentium® M 1.6 GHz / Celeron M 1.5 GHz	Intel® 852GM + ICH4	VGA	1	GbE	4	
	4"	IBX-650A	2-25	ENANO-8523	ULV Intel® Celeron® M 1 GHz zero cache	Intel® 852GM + ICH4	VGA	1	10/100M	3	1
	4"	ECN-381B	2-8	NANO-GM45A2	Socket P Intel® core Celeron® M 2.0GHz 1MB cache/ Core™ 2 Duo 2.26GHz 3MB L2 cache	Intel® GM45 + ICH9M	HDMI VGA	2	GbE	4	
	4"	WSTRIDER-200A	2-11	System board	Intel® Atom™ Z510P 1.1GHz	Intel® US15WP	VGA	1	GbE	4	
	m-ITX	ECK-161BSF	2-13	KINO-9452	Socket M Intel® Core™ Duo/Solo with 667 MHz FSB	Intel® 945GM + ICH7M	VGA HDTV	2	GbE	4	
	m-ITX	ECK-3699GE	-	KINO-9454	LGA 775 Intel® Pentium® 4/ Pentium® D with 533/800/1066 MHz FSB	Intel® 945G + ICH7	VGA	2	GbE	6	
	m-ITX	ECK-3699GF	-	KINO-9452	Socket M Intel® Core™ Duo/Solo with 667 MHz FSB	Intel® 945GM + ICH7M	VGA	2	GbE	6	
	m-ITX	ECK-3699GI	-	KINO-9453	Socket M Intel® Core™ Duo/Solo with 667 MHz FSB	Intel® 945GM + ICH7M	VGA	2	GbE	6	
	m-ITX	IBX-600-9102	2-23	eKINO-9102	ULV Intel® Celeron® M 1GHz 512KB cache	Intel 910GMLE + ICH6M	VGA DVI	1	GbE	6	
	m-ITX	IBX-600-945GSE	2-24	eKINO-945GSE	Intel® Atom® processor N270 1.6GHz	Intel 945GSE + ICH7M	VGA DVI	2	GbE	6	
		IBX-700-9103	2-32	POS-9103	ULV Intel® Celeron® M 1GHz 512KB cache	Intel® 910GMLE + ICH6-M	VGA	1	GbE	4+1	1
		IBX-700-9153	2-32	POS-9153	Intel® Celeron® M 1.5GHz 1MB cache	Intel® 915GM + ICH6-M	VGA	1	GbE	4+1	1
		IBX-800-9452	2-32	POS-9452	Intel® Core™ Duo 1.66GHz 2MB cache, Intel® T2300E	Intel® 945GM + ICH7-R	VGA	1	GbE	4+1	1



		ulBX-200-VX800	2-5	System board	VIA Eden ULV 1GHz	VX800	VGA	1	GbE	4	
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Embedded Chassis Selection Guide

Model no.	Compatible SBC	Index	Storage			Fan spec.	Indicators	
			2.5" HDD	3.5" HDD	CF		Power	HDD
EBC-2100	NANO-8522, NANO-LX, NANO-GX	2-27	1			1 x 4 cm		
EBC-2101	NANO-945GSE-N270	2-27	1			1 x 4 cm		
EB-2850G	NOVA-8522G2	2-28		1	1		O	O
EBC-3620	KINO-9652	2-31	1	1		2 x 5 cm	O	O
EBC-3000	KINO-G45A, KINO-9454, KINO-9652, KINO-9453, KINO-9452, KINO-780AM2	2-29		1		1 x 6cm	O	O
EBC-3100	KINO-G45A, KINO-9454, KINO-9652, KINO-9453, KINO-9452, KINO-780AM2	2-30		1		2 x 6cm	O	O
EBC-1000G + BK-LX800-RS-R11	WAFER-945GSE2, WAFER-LX, WAFER-GX	2-26	1			1 x 4 cm	O	O
EBC-1000G + BK-LX2-RS	WAFER-US15WP, WAFER-LX2	2-26	1			1 x 4 cm	O	O

RS232	RS232 / 422 / 485	Audio	Expansion	Storage			Power in	9 V~36 VDC in model	Embedded OS support		Dimensions (mm)			Color
				HDD	CF slot	Optical drive			Windows XPE	Windows CE	Depth	Width	Height	
2				1 x 2.5"	1		5 VDC		yes	yes	150.8	185.9	49.4	White
2				1 x 2.5"	1		5 VDC		yes	yes	150.8	185.9	49.4	White
2			PCI/104		1		12 VDC	yes			163	200	60	Sliver
2			PCI/104	1 x 2.5"	1		12 VDC	yes			178	230	60	Sliver
2	1	Line-out			1		12 VDC		yes	yes	109	210	38	Black

2		spk out, mic in	PCIe mini card		1		5VDC		yes	yes	125	120	44.4	Sliver
5	1	Line-out		1 x 2.5"			12 VDC	yes			132	229	64	Black
6		line-in, spk out	PCIe mini card	1 x 2.5"	1		12VDC	yes	yes		306.8	209.8	65	white
5		spk out	PCIe mini card	1 x 2.5"	1		12VDC	yes	yes		306.8	209.8	65	black
2		spk out			1		12VDC		yes	yes	108.2	210	39	Black
3		HD audio	PCI-104, PCIe mini card	1 x 2.5"	1		12 VDC	yes			165	250	62	Silver
4		Line-in, Line-out, Mic-in	PCI-104	1 x 2.5"	1		12 VDC	yes			250	160	62	Silver
3		Line-in, Line-out, Mic-in		1 x 2.5"	1		12 VDC				210	170	69	Black
3		spk out, mic in	PCIe mini card	1 x 2.5"	1		12 VDC				186	252	64	Blue gray
1	1		PCIe mini card		1		12~24VDC	yes	yes		61.7	99	230	Silver
4		HD audio	1 x PCI	1 x 2.5"	1		19 VDC	yes	yes		210	222	99.5	Silver gray
3		Line-in, Line-out		1 x 2.5"			19 VDC				258	210	65	Silver
1		Line-in, Line-out, Mic-in		1 x 2.5"		1 x slim-type	19 VDC		yes		258	210	65	Silver
		Line in, Line-out	mini PCI	1 x 2.5"			19 VDC				258	210	65	Silver
3		Line-in, spk out	PCIe mini card	1 x 2.5"	1	1 x slim type	12V~24VDC		yes		306.8	209.8	65	white
2		Line-in, spk out	PCIe mini card	1 x 2.5"	1	1 x slim type	12V~24VDC		yes	yes	306.8	209.8	65	white
2+4		spk out, mic in	1 x PCI or 1 x PCIe x 1	2 x 2.5'	1	1	12VDC	yes	yes		300	309	75	white
2+4		spk out, mic in	1 x PCI or 1 x PCIe x 1	2 x 2.5'	1	1	12VDC	yes	yes		300	309	75	white
2+4		spk out, mic in	1 x PCI or 1 x PCIe x 1	2 x 2.5'	1	1	90~264VAC		yes		330	309	85	white

2		spk out, mic in			1		5 VDC		yes	yes	125	120	44.4	Silver
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I/O						PSU	Dimensions (mm)			Color
Power	Reset	PS/2 for KB/MS	USB	Parallel port	Serial port		Depth	Height	Width	
		Y	2	1	3	12 VDC in AT mode only	134	262	56	Grey
		Y	2	1	3	12 VDC in AT mode only	134	262	56	Grey
O	O	Y	2	1	4	ACE-4518AP-RS, ACE-4525AP-RS	250	280	94	Black
O	O		2			12VDC in, 80W D2D module built-in	300	268	65	Black
O	O					1U	230	280	88	black
O	O					1U	250	260	156	black
O	O	Y	2		1	ACE-890AP-RS	130	116	172.2	black
O	O	Y	4		5	ACE-890AP-RS	130	116	172.2	black

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Industrial Computing Solutions

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Industrial Data Collector and Controller

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Video Capture Solutions

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I/O Communication Solutions

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Panel Solutions

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ORing Network Communication

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Power Supply/Peripherals

uIBX-200 Series



uIBX-200-R10/Z510P

- Ultra low power processor Intel® Atom™ Z510P
- Internal dual SD card slot for storage extension
- Built-in H.264, MPEG1/2/4, VC1/WMV9 decoding



uIBX-200-VX800

- VIA® Eden™ ULV 1GHz/500 MHz processor
- Support MPEG2, WMV9/VC1 decoding
- Inside SATA connector (SATA DOM)



uIBX-200-R10/Z510P as Signage Player

The uIBX-200-R10/Z510P's chipset has built-in H.264, MPEG1 /2/4, VC1/WMV9 decoder which is capable of displaying high resolution multimedia advertisements. Content can be updated through Internet remotely, or directly from USB device and stored in SD memory. The content is stored in a SD card and operating system is installed in a CompactFlash® card. It prevents OS from damage when frequently read or write content from or to the same disk. The lockable door also can avoids the CF from unauthorized access.

The compact size and fanless design of uIBX-200 makes it very flexible for applications with limited space. With uIBXVK-200B double side VESA75 mount kit, uIBX-200 can be installed between display stands and display monitor. Its quiet fanless operation is also ideal for environment which is noise sensitive such as museums and libraries.



Multimedia player



On shelf promotion



Library

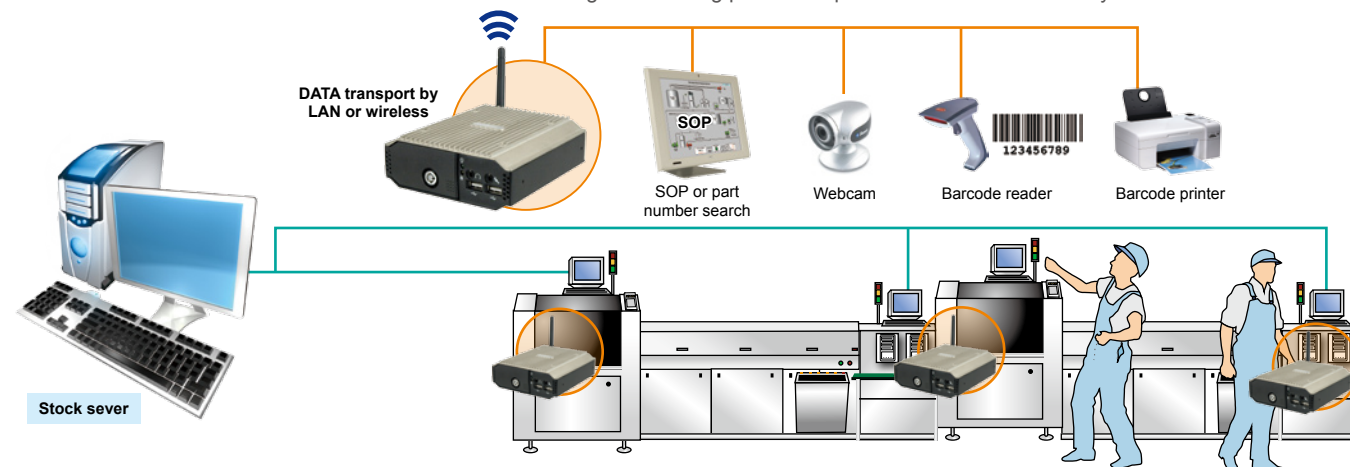


Museum

uIBX-200-VX800 at Production Line

The uIBX-200-VX800 has all essential functions to work as a thin client in production line. Operators can read the assembly SOP and search the part number online, get constant update of production schedule and other instructions from management.

During production, the component barcode can be collected by barcode scanner and updated to production server either by batch or via LAN or WiFi connection. Webcam can also be installed to collect image data during production process whenever necessary.



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Power Supply/
Peripherals

Ultra Low Power & High Graphic Performance

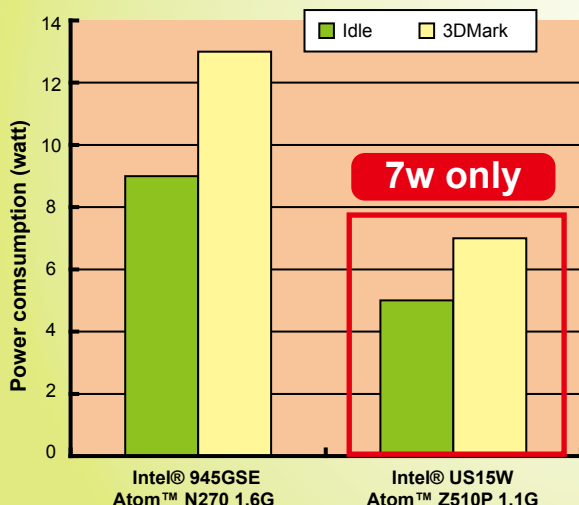


» uIBX-200-R10/Z510P

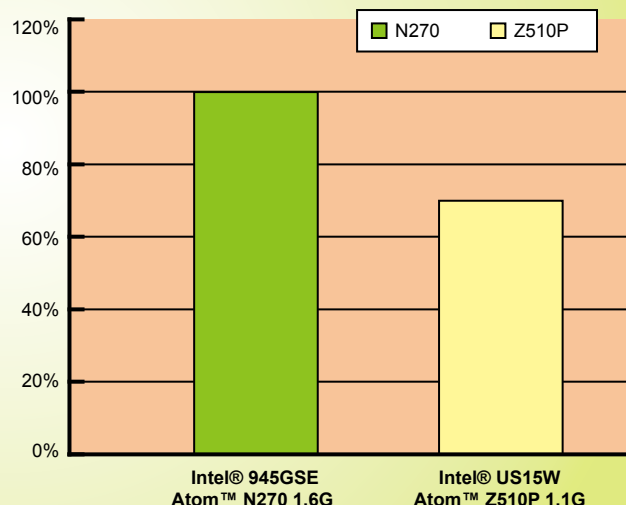
Intel® US15WP is the one with lowest power consumption among Intel® low power chipset solution. Comparing with another Intel® Atom™ family chipset - Intel® 945GSE, the power consumption of Intel® US15WP running with 3DMark under Windows XP is 40% lower.

With built-in multimedia decode engine, the uIBX-200-US15WP can play HD H.264 movie smoothly while CPU still has usage available to handle more tasks.

Comparison between N270 & Z510P



H.264 graphic performance CPU loading with H/W acceleration



Ultra Compact Size

With slim and small design, the uIBX-200 series has great advantage when you have space design concern. The uIBX-200 series is not only easy for you to store, but also ideal for installing in the environment with limited space.



Ultra compact size

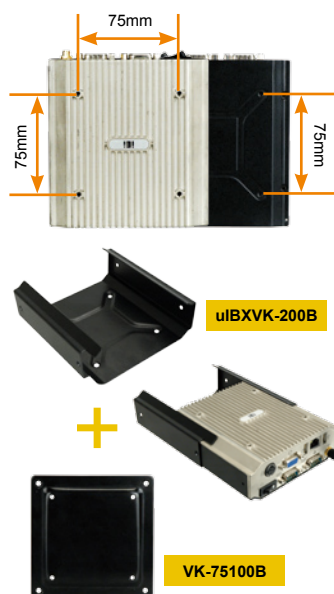


500g only



Small size display application

Smart Mounting Design



A. Wall mount

VESA 75 support. Easy to mounting whatever TOP side or BOTTOM side.



AFLWK-12

uIBX-200 can be directly mounted on the wall with VESA 75 mounting kit



B. VESA mount 75

Step.1



Install the mount kit in back of monitor.

Step.2



Assembling uIBX-200, stand and panel.

Step.3

Screw to fix uIBX-200



As different applications, the direction of assembling can be changed.

C. VESA mount 100



Screw to fix VK-75100B and panel



Mount it on the back of an LCD monitor to save even more space and create an all-in-one PC at the same time.

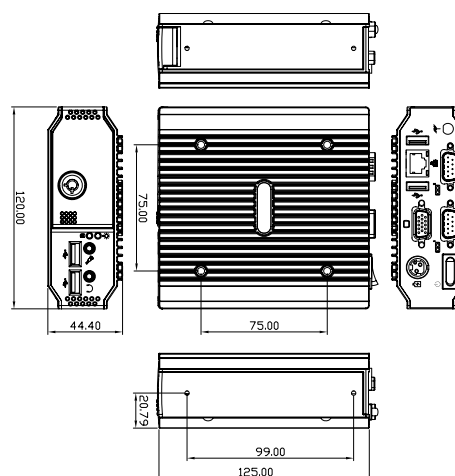
Specifications

Model	uIBX-200-R10/Z510P	uIBX-200-VX800
Processor	Intel® Atom™ Z510P 1.1GHz	VIA® Eden™ ULV 1GHz/500 MHz
Chipset	Intel® US15WP	VIA VX800
System memory	1GB DDR2 onboard memory	1GB /512 MB DDR2 onboard memory
Display	1 x VGA	
USB	4 x USB	
Serial port	2 x RS-232	
Audio	1 x mic in, 1 x speaker out	
Wireless (optional)	802.11b/g mini PCIe module	
Storage Device	1 x CompactFlash Type II slot & 2 x SD slots	1 x CompactFlash Type II slot & 1 x SATA DOM
Power Input	5VDC in, with 25W power adaptor	5VDC in, with 17W power adaptor
Operation temp.	0°C ~ 50°C	0°C ~ 50°C
System power consumption	9.5 W	15 W
Operation Shock	Half-sine wave shock 3G; 11ms; 3 shocks per axis	
Operation Vibration	MIL-STD-810F 514.5C-2	
Construction	Aluminum alloy casing, Plastic front panel	
Dimensions	120mm(W) x 125mm(D) x 44mm (H)	
Weight (Net/ Gross)	480g/1.5kg	
Mounting	Desktop, VESA mount, Double VESA mount with VESA adaptor	
EMC/Safety	CE, FCC class A, CCC, UL	

Packing List

1 x QIG
1 x Driver CD
2 x keys
1 x Screw set
1 x Power adaptor
1 x 2dbi wireless antenna (for wireless model only)

Dimensions (Unit:mm)



Ordering Information

uIBX-200-R10/Z510P

Part No.	Description
UIBX-200-R10/Z510P/1GB	Fanless embedded system with Intel® Atom™ Z510P 1.1GHz CPU, US15WP system chipset, onboard 1GB DDR2 memory, 5VDC in, with 25W power adaptor, black, RoHS
UIBX-200W-R10/Z510P/1GB	Fanless embedded system with Intel® Atom™ Z510P 1.1GHz CPU, US15WP system chipset, onboard 1GB DDR2 memory, built-in 802.11b/g wireless, 5VDC in, with 25W power adaptor, black, RoHS

uIBX-200-VX800

UIBX-200-VX800-R10/500/512MB	Fanless embedded system with VIA Eden ULV 500Hz CPU, VX800 chipset, onboard 512MB DDR2 memory, 5VDC-In, with 17W power adaptor, black, RoHS
UIBX-200-VX800-W-R10/500/512MB	Fanless embedded system with VIA Eden ULV 500Hz CPU, VX800 chipset, onboard 512MB DDR2 memory, built-in 802.11b/g wireless, 5VDC-In, with 17W power adaptor, black, RoHS
UIBX-200-VX800-R10/1GZ/1GB	Fanless embedded system with VIA Eden ULV 1GHz CPU, VX800 chipset, onboard 1GB DDR2 memory, 5VDC-In, with 17W power adaptor, black, RoHS
UIBX-200-VX800-W-R10/1GZ/1GB	Fanless embedded system with VIA Eden ULV 1GHz CPU, VX800 chipset, onboard 1GB DDR2 memory, built-in 802.11b/g wireless, 5VDC-In, with 17W power adaptor, black, RoHS

Embedded OS options

UIBXCF-200-US15WP-CE060	Windows® CE 6.0 OS image, for uIBX-200-US15WP, with 128 MB compact Flash memory card, RoHS
UIBXCF-200-US15WP-XPE	Windows® XP Embedded OS image, for uIBX-200-US15WP, with 1GB Compact Flash memory card, RoHS
UIBXCF-200-VX800-CE060	Windows® CE 6.0 OS image, for uIBX-200-VX800, with 128 MB compact Flash memory card, RoHS
UIBXCF-200-VX800-XPE	Windows® XP Embedded OS image, for uIBX-200-VX800, with 1GB compact Flash memory card, RoHS

Mounting kit

UIBXVK-200B	VESA mount kit for uIBX-200, black
VK-75100B	VESA mount 75 to100 adapter, black

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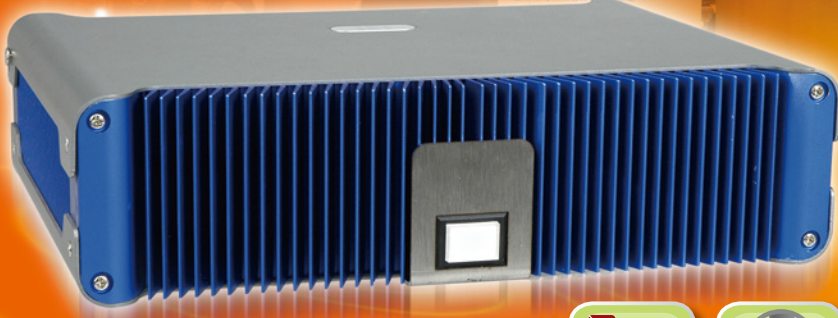
8

Power Supply/Peripherals

NEW

ECN-381B

Core 2 Duo Fan-less Multimedia Box





- ◆ Intel® 45nm mobile Core™ 2 Duo fanless Design
- ◆ Intel® GM45 rich media features with VGA+HDMI dual display
- ◆ 1080i/p Full HD by HDMI with HDCP support
- ◆ High quality media MPEG-2 decoding, WMV9 (VC-1), H.264 (AVC), DirectX 10
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery







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GM45 Leadership Performance

Montevina Platform – Key Features



- Penryn on 45nm process (6M, 1066FSB)
- Introduces DDR3 Support (800/1066)
- SSE4 (SIMD Software enhancements)
- Enhanced Graphics Engine (Gen 5 gfx)



- Support for High Def decode in H/W
- Integrated DisplayPort™ & HDMI/HDCP
- Additional USB & SATA ports (no PATA)
- Integrated TPM and Packet Filtering



- Smaller FormFactor Chipsets and CPUs
- Deep Power Down Technology (w/ C6 state)
- Thermal compatibility with Santa Rosa

As the latest 3-chip mobile solution, Intel® GM45 has substantial improvement on graphic and media related features over 945GME including HD display and Blu-ray support as well as MPEG-2 decoding acceleration. Its High-Definition Multimedia Interface(HDMI) enables 1080p HD digital output to large size panel, ideal for signage application.

	GM45	945GME
FSB	667/800/1066MHz	667MHz
Memory support	DDR3 800/1066MHz	DDR2 400/533/667MHz
Graphic engine	GMA4500MHD	GMA950
Render clock	533-MHz core render clock	250-MHz core render clock
DP/HDMI	Available, with HDCP support	N/A
Multimedia features	• High performance MPEG-2 decoding • WMV9 (VC-1) and H.264 (AVC) support • Hardware acceleration for MPEG2 VLD/iDCT • Blu-ray* support @ 40 Mb/s	N/A
DirectX Version	DirectX 10	DirectX 9.1

Core™2 Duo Fan-less



The ECN-381B has a passive cooling architecture design. The heat pipes and extruded aluminum fins transfer heat from CPU and chipset instantly to the system aluminum enclosure by natural convection. With Intel® mobile Core™2 Duo 2.26GHz, the ECN-381B is verified its reliability and stability under 40°C high temperature¹, and support up to 31W CPU TDP fan-less operation.



Intel® mobile Core™2 Duo 2.26GHz, Processor P8400
3MB L2 cache
TDP 25W



Intel® Celeron® M 2.0 GHz, Processor 575
1MB L2 cache
TDP 31W

¹ High temperature operation test is performed with ambient air speed 0.5 meter / sec, compliant to IEC-68-2-2 standard.

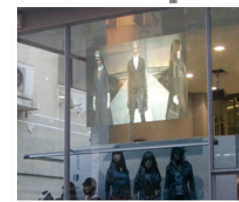
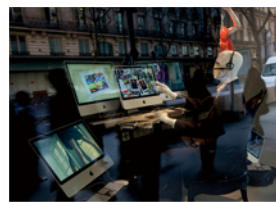
Full HD Dual Display



VGA up to 2048x1536



The ECN-381B has VGA and HDMI dual display interfaces which support high resolution and independent screen with audio output. Applications like fine art demonstration, high fashion show window, large screen digital signage, all need high definition graphic performance to show the true beauty of product and content. The ECN-381B is more than competent to fulfill these requirement.



About HDMI

HDMI is a compact audio/video interface for transmitting uncompressed digital data. It represents a digital alternative to consumer analog standards such as Radio Frequency (RF) coaxial cable, composite video, S-Video, SCART, component video, D-Terminal, and VGA. HDMI connects digital audio/video sources such as set-top boxes, Blu-ray Disc players, personal computers, video game consoles, and AV receivers to compatible digital audio devices, computer monitors, and digital televisions.

Specifications

SBC	NANO-GM45A2
Processor	Intel® Core 2 Duo 2.26GHz 3MB L2 cache, processor P8400 Intel® Celeron™ M 2.0 GHz 1MB L2 cache, processor 575
Chipset	Intel® GM45 with ICH9M
System Memory	Pre-installed 204-pin 1GB DDR3 SDRAM SO-DIMM
Ethernet	Dual Realtek RTL8111CP GbE
Display	HDMI, VGA
USB	4 x USB 2.0
Serial Port	3 x RS-232
Audio	1 x mic in, 1 x speaker out
Storage	1 x CompactFlash Type II slot, 1 x 2.5" SATA HDD, SATA DOM compatible
Expansions	1 x PCIe mini card slot, reserved for WiFi
Power Input	12VDC in, with 60W power adaptor (with ERP and PSE certificates)
Power Consumption	48 W (Intel® Core 2 Duo 2.26GHz P8400 with 1GB DDR3)
Chassis Construction	Aluminum Alloy
Operating Temperature	0°C ~ 40°C (with HDD) with air flow* 0°C ~ 45°C (SATA DOM/CompactFlash) with air flow*
Operating Shock	Half-sine wave shock 3G; 11ms; 3 shocks per axis
Operating Vibration	MIL-STD-810F 514.5C-2
Weight (Net/Gross)	2.6 kg / 3.9 kg
Dimensions (DxWxH)	252 mm(W) x 186 mm(D) x 64 mm (H)
Mounting	Desktop, wall mount, VESA mount
EMC/Safety	CE, FCC class A, CCC

* Ambient air speed pre IEC-68-2-2 standard.

Storage Support

The ECN-381B supports three kinds of storage devices including 2.5" Serial ATA hard drive, CompactFlash and Serial ATA Disk-on-Module. Using the ECN-381B as signage player, you can install operating system in CF card or SATA DOM, while storing multimedia content in the hard drive. This can protect OS image damage from frequent read/write during content playback and update.



2.5" SATA hard drive

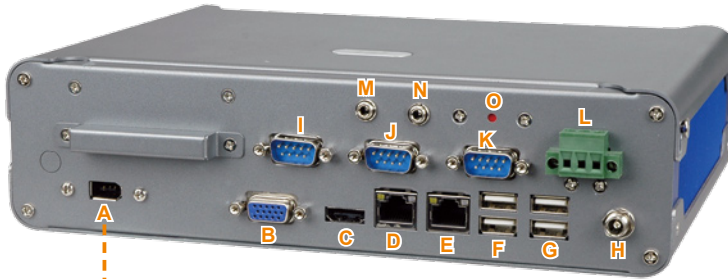


CompactFlash II



SATA DOM

I/O Interface



IEEE 1394a

♦ Industrial high speed camera

- Industrial inspection
- Machine vision
- Healthcare and medical
- Security and traffic



A. IEEE 1394a (6-pin)

B. VGA

C. HDMI

D. GbE

E. GbE

F. Dual USB

G. Dual USB

H. DC in

I. RS232

J. RS232

K. RS232

L. TB DC in

M. Line out

N. Mic in

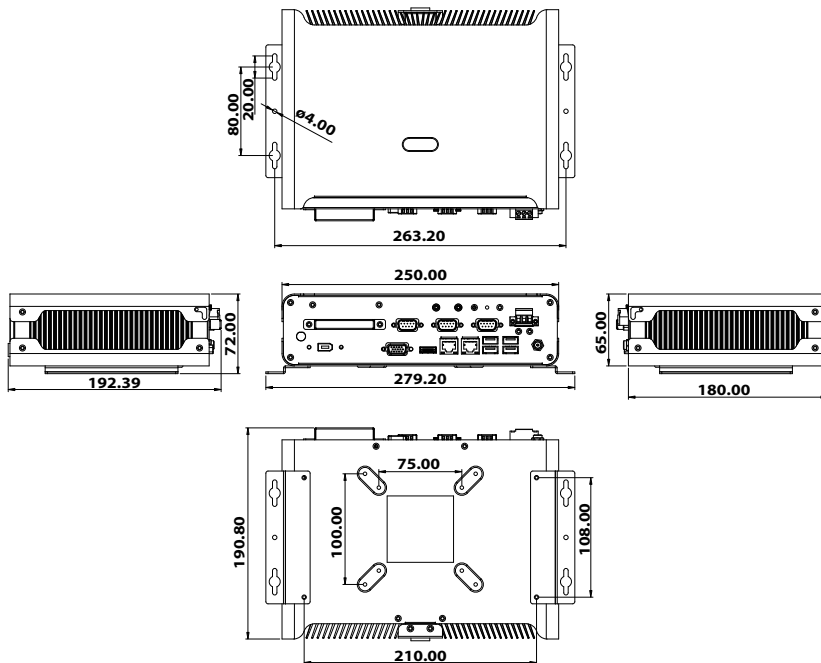
O. Reset

♦ HD camcorder



- Broadcasting business
- Professional video editing

Dimensions (unit: mm)



Packing List

1 x QIG
2 x wall mount bracket
1 x SATA hard drive cable
1 x 2dbi wireless antenna (for wireless model only)
1 x screw set
1 x driver CD
1 x power cord
1 x 12VDC 60W power adaptor (with ERP and PSE certificates)

Ordering Information

Part No.	Description
ECN-381B-R10/CM575/1GB	Fanless embedded system with Intel Celeron M 575 2.0 GHz 1MB L2 cache, GM45 chipset, with 1GB DDR3 memory, 12VDC, 60W power adaptor with ERP and PSE certificates, Reflex Blue C+8403C, RoHS
ECN-381B-R10/P8400/1GB	Fanless embedded system with Intel Core 2 Duo P8400 2.26 GHz 3MB L2 cache, GM45 chipset, with 1GB DDR3 memory, 12VDC, 60W power adaptor with ERP and PSE certificates, Reflex Blue C+8403C, RoHS
ECN-381BW-R10/CM575/1GB	Fanless embedded system, Intel Celeron M 575 2.0 GHz 1MB L2 cache, GM45 chipset, built-in 802.11b/g wireless, with 1GB DDR3 memory, 12VDC, 60W power adaptor with ERP and PSE certificates, Reflex Blue C+8403C, RoHS
ECN-381BW-R10/P8400/1GB	Fanless embedded system, Intel Core 2 Duo P8400 2.26 GHz 3MB L2 cache and GM45 chipset, built-in 802.11b/g wireless, with 1GB DDR3 memory, 12VDC, 60W power adaptor with ERP and PSE certificates, Reflex Blue C+8403C, RoHS

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Industrial Computing Solutions

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Embedded Computing Solutions

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Industrial Data Collector and Controller

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Video Capture Solutions

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I/O Communication Solutions

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Panel Solutions

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ORing Network Communication

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Power Supply/Peripherals



NEW

WStrider-200A

IP67 Extend-Temperature Fanless Embedded Controller

- ◆ Ultra low voltage Intel® Atom™ Z510PT solution
- ◆ IP67 compliant rugged design
- ◆ Fanless operation under -30°C ~70°C extreme temperature
- ◆ Built-in 802.11b/g/n high speed wireless communication
- ◆ 9~28VDC power input
- ◆ Two channels analog video input
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery

One Key Recovery
IEI dynamic

Fanless

Wireless
802.11 b/g/n

IP 67

+70°C
-30°C

WStrider-200A is a rugged embedded controller designed to operate in harsh usage environments and conditions. Its Aluminum die-casting enclosure and M12 watertight connector not only provides IP67 grade protection against dust and water, it also can withstand high impact by vandal usage. Empowered by Intel® Atom™ Z510PT with US15WPT industrial grade processor and chipset, WStrider-200A is able to operate under extreme temperature from -30°C to 70 °C. The built-in 802.11b/g/n module with IP67 compliant external antenna provides reliable high speed wireless communication. Furthermore WStrider-200A is capable of taking video input or image from analog camera by its built-in Techwell TW6805, providing upto two channels video capturing. For severe environment with unstable power source, WStrider-200A can take power input from 9VDC to 28VDC.



Rugged IP67 Protection

The IP Code (International Protection Rating) is defined in international standard IEC 60529 and it classifies the degrees of protection provided against the intrusion of solid objects, dust, accidental contact, and water in electrical enclosures. WStrider-200A is a IP67 compliant controller and this dust-tight, water ingress resistant design has been verified severely throughout the design process in IEI's in-house UL50 certified waterproof laboratory. Air leak examination will also be applied during production to ensure every WStrider-200A is ready to operate reliably in harsh environment.

Air Leak Examination



Immersion test



[IP67] Dust-tight

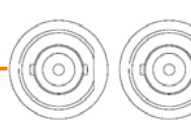
Level	Effective Against
6	No ingress of dust; complete protection against contact

[IP67] 30 minutes immersion under one meter water

Level	Effective Against
7	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 1m of submersion)

Analog Video Input





BNC analog video input



Water proof BNC cable



IP67 analog camera



IP 67 external wireless antenna

WStrider-200A offers two channels analog video input via BNC interface with IP67 protection. By built-in Techwell TW6805 video engine, WStrider-200A can support upto D1 resolution capturing. For mining or disaster rescuing application, live video image is necessary for control and decision making, WStrider-200A can encode video and picture data then instantly transfer it to remote monitoring center via GbE or 802.11b/g/n high speed wireless communication.

Wide Range DC Input

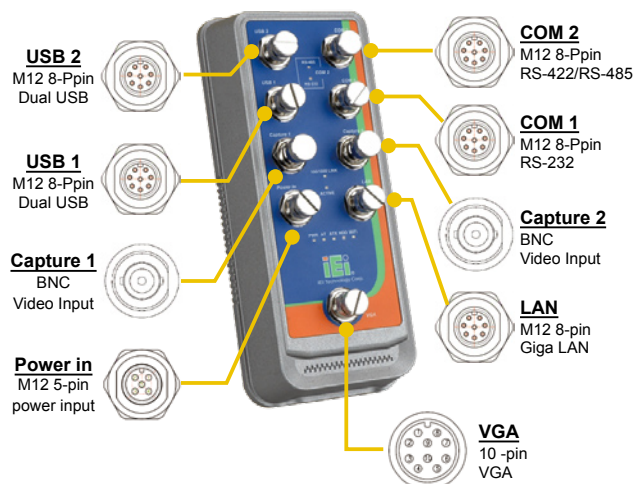
For severe environment with unstable power source, WStrider-200A can takes power input from 9VDC to 28VDC. WStrider-200A uses 5-pin M12 connector as power input interface, which has different pin numbers to avoid power mistakenly connected to other IO for safety concern. You may apply DC power source directly to WStrider-200A via M12 5pin to terminal block cable in packing, or with optional IP67 60W power adaptor, apply AC source from the field.



1
Industrial Computing Solutions

IO Interface & Cabling

WStrider-200A uses IP67 compliant M12 and BNC connectors with watertight cap in pair for each connector. With watertight-to-PC interface cables, WStrider-200A can be easily connected to PC peripheral devices, operating just like common PC.



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Embedded Computing Solutions

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Industrial Data Collector and Controller

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Video Capture Solutions

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I/O Communication Solutions

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Power Supply/Peripherals

Specifications

Processor	Intel® Atom™ 1.1GHz processor Z510PT with 400MHz FSB
Chipset	Intel® US15WPT
System Memory	1GB DDR2 SDRAM onboard
Ethernet	Intel® 82541PI GbE with M12 8pin connector
Wireless	Built in 802.11b/g/n for wireless model
Display	VGA signal with 10pin IP67 connector
USB	4 x USB 2.0, by two M12 8pin connector
Serial Port	1 x RS-232, with M12 8pin connector 1 x RS-422/485, with M12 8pin connector
Capture	2 x ch. By Techwell TW6805, with BNC connector
Storage	1 x CompactFlash Type II slot, 4GB CF pre-installed with XPE image
Power Input	9~28VDC in, with M12 5pin connector
Power Consumption	16W
Chassis Construction	Aluminum Alloy
Operating Temperature	-30°C ~ 70°C with air flow* (w/o wireless) -30°C ~ 50°C with air flow* (w/ wireless)
Operating shock	Half-sine wave shock 3G; 11ms; 3 shocks per axis
Operating Vibration	MIL-STD-810F 514.5C-2
Weight (Net/Gross)	1.3kg / 2.9kg
Dimensions (DxWxH)	99mm(W) x 61.7mm(D) x 230 mm (H)
Mounting	wall mount
EMC/Safety	CE, FCC class A, UL

* Ambient air speed pre IEC-68-2-2 standard

Ordering Information

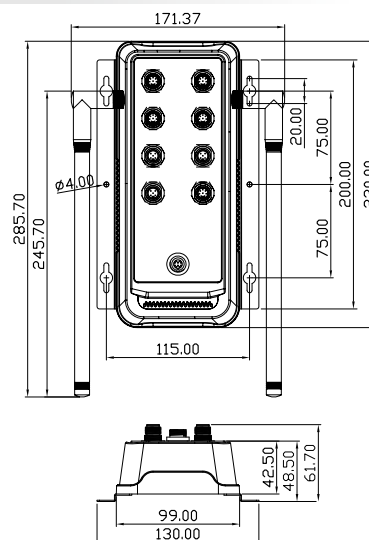
Part No.	Description
WSTRIDER-200A-R10/4G-XPE	IP 67 extend temperature fanless embedded system, US15WPT with Intel® Atom™ 1.1GHz Z510PT processor, 1GB DDR2 memory onboard, w/ 4GB CF card, built in Windows® XP embedded OS, w/o power adaptor, RoHS
WSTRIDER-200AW-R10/4G-XPE	IP 67 extend temperature fanless embedded system, US15WPT with Intel® Atom™ 1.1GHz Z510PT processor, 1GB DDR2 memory onboard, 802.11b/g/n wireless, w/ 4GB CF card, built in Windows® XP embedded OS, w/o power adaptor, RoHS

* For other CompactFlash capacity, please contact with IEI for customization.

Optional Cables and Adapter

Item	Part Number
Water-proof Power Adapter (12V 60W)	63000-CLG6012IE-RS
Water-proof COM port cable (300 cm)	32005-000100-100-RS
Water-proof USB cable (300 cm)	32001-001000-100-RS
Water-proof LAN cable (300 cm)	32013-000200-100-RS
Water-proof BNC male cable (300 cm)	32014-000100-100-RS

Dimensions (unit: mm)



Packing List

1 x QIG	1 x M12 10 pin VGA cable
1 x Driver CD	1 x M12 USB cable
1 x M12 5pin DC input cable	2 x wall mount bracket
1 x Screw set	2 x IP67 wireless antenna* (*for wireless model only)

ECK-161B

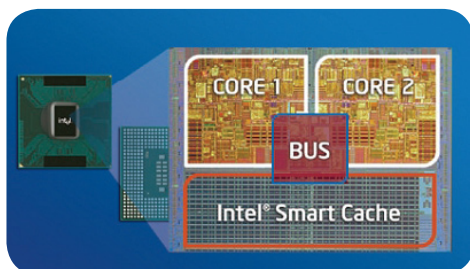
Intel® Core™2 Duo Fanless Embedded System with one PCI slot



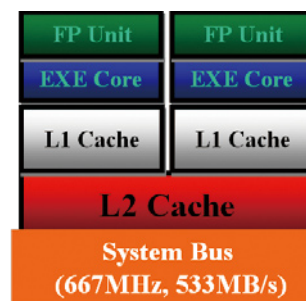
Features

- ◆ Intel® Core™2 Duo Fanless design support up to T7400
- ◆ 1 x PCI expansion slot with max. 155 mm card length
- ◆ VGA + HDTV display interface with HD audio support
- ◆ Peripheral expansion includes six USB ports and four serial ports
- ◆ 9 VDC - 36 VDC power input
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Dual-Core Intel Processor Benefits



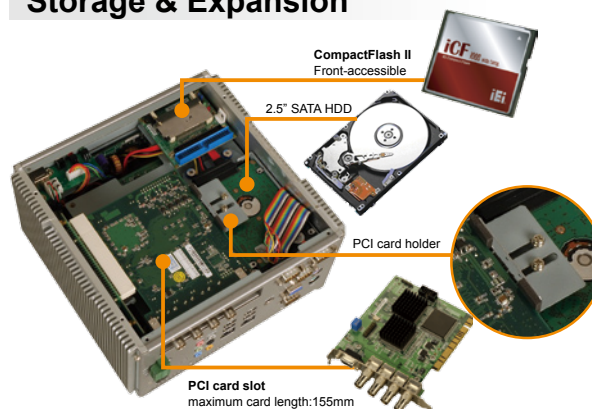
- Two physical cores in a package to share system load
- Each with its own L1 cache and share the L2 cache to enhance processing speed
- Each with its own execution resources with truly parallel multi-tasking and threaded execution. Increased throughput.



Specifications

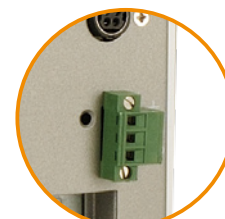
SBC	KINO-9452
Processor	Intel® Core™ Duo 1.66GHz, 2MB L2 cache, processor T5500 Intel® Celeron® M 1.86GHz 1MB L2 cache, processor 440
Chipset	Intel® 945GME+ICH7M
System Memory	1 GB DDR2 SDRAM pre-installed
Ethernet	2 x PCIe Broadcom GbE
Display	CRT/TV-out interface integrated in 945GM, with one VGA and one 7-pin mini DIN port
USB	6 x USB 2.0
Serial Port	4 x RS-232
Audio	7.1 channel HD audio
PS/2	1 x KB / 1 x MS
Expansions slot	1 x PCI
Storage	1 x 2.5" SATA HDD capacity 1 x CompactFlash slot, front-accessible
Power Input	12 VDC in with 4pin mini-DIN 9 VDC - 36 VDC input by terminal block
Chassis Construction	Aluminum alloy with heavy duty metal
Operating Temperature	0~40°C- consumer hard drive 0~50°C- automotive hard drive / CompactFlash™ disk
Weight (Net/Gross)	4.1 kg / 6 kg
Dimensions (D x W x H)	222.2 mm x 210.2 mm x 99.49 mm
Mounting	Wall mount
EMC/Safety	CE, FCC class A

Storage & Expansion



Wide Range DC Power Input

ECK-161B can take any DC input voltage from 9V to 36V. It has two input interfaces: 3-pin terminal block or 4-pin mini DIN jack.



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Video Capture Solutions

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Power Supply/Peripherals

Powerful yet Fanless



80% of the enclosure of the ECK-161B is made of extruded Aluminum alloy fins. By using these parts directly as the system cooler, the ECK-161B can operate fanless at under 40°C*.

* The operating temperature test as per IEC-68-2-3.

***Operating Temperature :** with Intel® Core™2 Duo 2.16 GHz
 0~50°C with CompactFlash™ disk /
 automotive hard drive
 0~40°C with consumer hard drive

Dual Display & HD Audio



VGA Port
CRT interface



TV-out Port
 • Supports S-Video, Component and Composite video signal output
 • Component output up to 1080i/1080p



HD audio
 • 7.1 channel high definition audio entertainment
 • Supports two independent audio output streams

Interactive Multimedia Art Empowered by ECK-161



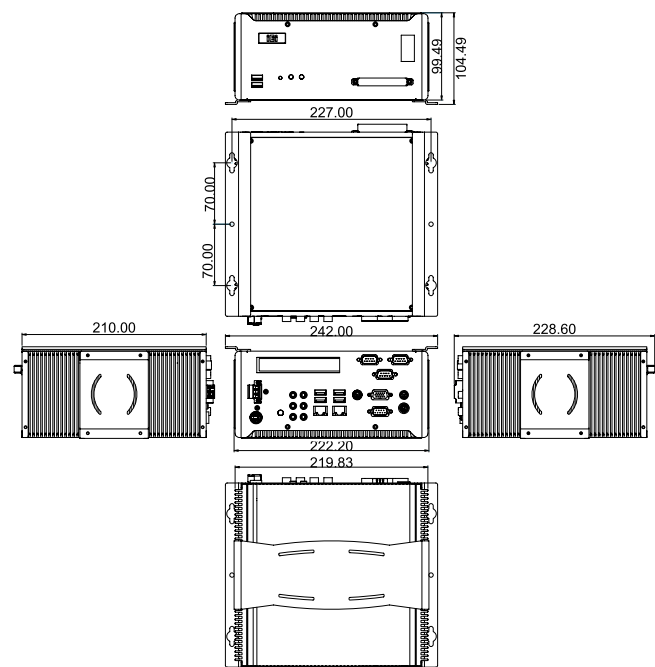
- Requires absolute quiet exhibiting space
- High definition graphic performance shows the true beauty
- Excellent CPU power for real time interactive computing
- Dual display or multi display for single art work



Packing List

1 x QIG	1 x Screw set
2 x Mounting brackets	1 x Power cord
1 x Power adaptor	1 x Manual CD
1 x Driver CD	

Dimensions unit: mm



Ordering Information

Part No.	Description
ECK-161BSF-WD/T5500/1GB	Fanless embedded system with one PCI slot, Intel® Core™ Duo 1.66 GHz 2 MB L2 cache, processor T5500, Intel® 945GM with ICH7M, 1 GB DDR2 memory, 9~36 VDC in, 120 W AC power supply, silver, RoHS
ECK-161BSF-WD/CM440/1GB	Fanless embedded system with one PCI slot, Intel® Celeron® M 1.86 GHz 1 MB L2 cache, processor 440, Intel® 945GME with ICH7M, 1 GB DDR2 memory, 9~36 VDC in, 150 W power adaptor, silver, RoHS
ECKCF-161BF-XPE	Windows XP embedded OS image for ECK-161B, with 1GB CompactFlash™ card, RoHS

ECN-171A

Intel® 945GME Embedded System with
PCI-104 & PCIe mini expansions



Features

- ◆ Intel® 945GME chipset supports socket M CPU upto 34 W TDP
- ◆ 7.1 channel HD audio with HDTV output or dual VGA
- ◆ One 2.5" hard drive bay and one CompactFlash™ slot
- ◆ One PCIe mini card slot and one PCI-104 slot for expansion
- ◆ 12 VDC, 9 V~36 VDC input models available
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery

ECN-171B

Intel® Pentium® M/Celeron™ M Fanless
Embedded System with 2.5" HDD



Features

- ◆ Supports Pentium® M / Celeron® M up to 1.8 GHz
- ◆ One 2.5" IDE hard drive slot and one CompactFlash slot
- ◆ EPM series PCI-104 interface expansion modules compatible
- ◆ 12 VDC, 9 V~36 VDC input models available
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

Model No.	ECN-171ASF0
System Fan	2 x 5 cm
SBC	NANO-9452-R11
CPU	Intel® Celeron® M 1.86 GHz 1MB L2 cache, processor 440 / Intel® Core™ Duo 1.66 GHz 2MB L2 cache, processor T5500
Chipset	945GME+ICH7M
System Memory	One 200-pin 400/533/667MHz DDR2 SDRAM SO-DIMM supported (system max.1GB, built-in 1GB)
Expansion Slot	1 x PCI-104, 1 x PCIe mini card
Display	CRT/SDVO interface integrated in 945GME, with two VGA port
Ethernet	Dual PCIe GbE, Broadcom BCM5787 with ASF 2.0 remote control support
Audio	7.1 channel HD audio
USB	2 x USB2.0
Serial Port	3 x RS-232
LED	power, HDD
Switch	power, reset
Storage	1 x CompactFlash™ slot, 1 x 2.5" SATA HDD
Chassis Construction	Heavy duty metal
Power in	12 VDC in with DC jack and 3-pin terminal block. WD series input voltage: 9 V~36 VDC
Operating Temperature	With CompactFlash™: 0°C ~ 50°C, with hard drive: 0°C ~ 45°C
Operating Shock	MIL-STD-810F 514.5C-1
Operating Vibration	IEC68-2-27
Weight	1.9 kg / 3.0 kg
Dimensions (WxHxD)	250 mm x 62 mm x 165 mm
Mounting	Wall mount / DIN mount (with optional DIN mount kit)

Ordering Information

Part No.	Description
ECN-171ASF0/ CM440/1GB	Embedded system with NANO-9452, Intel® Celeron® M 1.86GHz 1MB L2 cache CPU, built-in 1GB DDR2 memory, HDTV out, 7.1ch HD audio, 2 x 5 cm fans, 12 VDC, 60 W power adaptor, silver, RoHS
ECN-171ASF0/ T5500/1GB	Embedded system with NANO-9452, Intel® Core™ Duo 1.66GHz 2MB L2 cache, T5500, built-in 1GB DDR2 memory, HDTV out, 7.1ch HD audio, 2 x 5 cm fans, 12VDC, 60W power adaptor, silver, RoHS
ECN-171ASF0- WD/CM440/1GB	Embedded system with NANO-9452, Intel® Celeron® M 1.86GHz 1MB L2 cache CPU, built-in 1GB DDR2 memory, HDTV out, 7.1ch HD audio, 2 x 5 cm fans, 9-36 VDC, silver, RoHS
ECN-171ASF0- WD/T5500/1GB	Embedded system with NANO-9452, Intel® Core™ 1.66GHz 2MB L2 cache, T5500, built-in 1GB DDR2 memory, HDTV out, 7.1ch HD audio, 2 x 5 cm fans, 9-36 VDC, silver, RoHS

Specifications

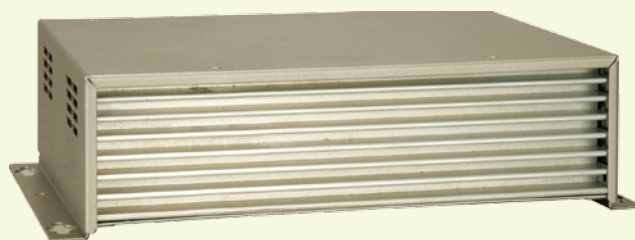
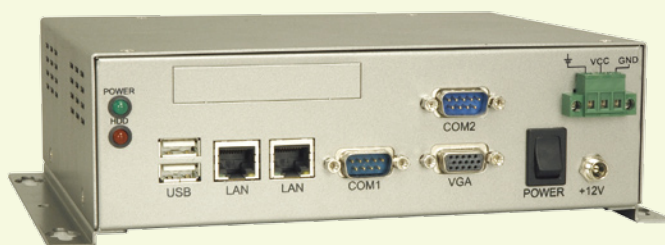
Model No.	ECN-171BSE0
SBC	NANO-8522G
Processor	Celeron® M 1.5 GHz, 1MB L2 cache, processor 370 / Pentium® M 1.6 GHz, 1MB L2 cache
Chipset	Intel® 852GM + ICH4
System memory	One 200-pin 266 MHz DDR SDRAM SO-DIMM supported (system max.1GB, built-in 512MB)
Ethernet	1 x 10/100/1000BASE-T, Intel® 82541PI
Display	CRT interface integrated in 852GM with one VGA port
USB	4 x USB 2.0
Serial port	3 x RS-232 (COM1, COM3, COM4) 1 x RS-232/422/485 selectable (COM2)
Audio	Line-in, MIC-in, Line-out
Video capturing	N/A
Storage	1 x 2.5" IDE hard drive 1 x CompactFlash™ socket CompactFlash™ Type I/II cards
Power input	12 VDC* with DC jack and 3-pin terminal block. WD series input voltage: 9 V~36 VDC
Chassis construction	Heavy duty metal with Aluminum Alloy Fin
Operating temperature	0°C ~ 50°C with industrial grade CompactFlash™ 0°C ~ 40°C with hard drive
Operating shock	MIL-STD-810F 514.5C-1
Operating vibration	3G acceleration peak to peak (11 ms)
Weight (Net/ Gross)	2 kg / 3.2 kg
Dimensions (DxWxH)	250 mm x 62 mm x 160 mm
Mounting	Wall mount / DIN mount (with optional DIN mount kit)

Ordering Information

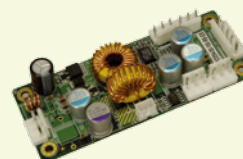
Part No.	Description
ECN-171BSE0-R13/ CM15G/512MB	Fanless embedded system with NANO-8522-R13, Intel® Celeron® M 1.5 GHz CPU, built-in 512MB DDR memory, 12 VDC in, 45 W adaptor, silver, RoHS
ECN-171BSE0-R13/ PM16G/512MB	Fanless embedded system with NANO-8522-R13, Intel® Pentium® M 1.6 GHz CPU, built-in 512MB DDR memory, 12VDC in, 45 W adaptor, silver, RoHS
ECN-171BSEA-R13/ CM15G/512MB	Fanless embedded system with NANO-8522-R13, Intel® Celeron® M 1.5GHz CPU, built-in 512MB DDR memory, Tri Intel® GbE, eSATA, 12VDC in, 45 W adaptor, silver, RoHS
ECN-171BSE0-WD-R13/ CM15G/512MB	Fanless embedded system with NANO-8522-R13, Celeron® M 1.5 GHz CPU, built-in 512MB DDR memory, 9-36 VDC, silver, RoHS
ECN-171BSE0-WD-R13/ PM16G/512MB	Fanless embedded system with NANO-8522-R13, Pentium® M 1.6 GHz CPU, built-in 512MB DDR memory, 9-36 VDC, silver, RoHS
ECN-171BSEA-WD-R13/ CM15G/512MB	Fanless embedded system with NANO-8522-R13, Celeron® M 1.5 GHz CPU, built-in 512MB DDR memory, Tri Intel® GbE, eSATA, 9-36 VDC, silver, RoHS

*9~36VDC input models do not include AC-DC power adaptor in package.

ECW-180B / 181B 3.5" WAFER Series Fanless Embedded System



9~36VDC Input



IDD-936260A
Input Range: 9 VDC to 36 VDC
Output: 12 V @ 3 A (Max.)
5 V @ 10 A (Max.)
5 VSB @ 0.5 A (Max.)

Features

- ◆ Fanless solutions with AMD® Geode processors
- ◆ Quiet operation with heat pipe thermal control
- ◆ Easily accessible CompactFlash card opening at the bottom
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

Model No.	ECW-180BS1-R12/256MB	ECW-181BS1-R12/256MB
Mainboard	WAFER-LX	WAFER-LX
CPU	AMD® Geode® LX 800 500 MHz	AMD® Geode® LX 800 500 MHz
System Chipset	AMD® CS5536	AMD® CS5536
System Memory	One 200-pin 333/400MHz DDR SDRAM SO-DIMM supported (system max.1GB, built-in 256MB)	One 200-pin 333/400MHz DDR SDRAM SO-DIMM supported (system max.1GB, built-in 256MB)
Ethernet	dual 10/100BASE-T RTL8100C	dual 10/100BASE-T RTL8100C
Display	CRT interface integrated in AMD® Geode LX800, with one VGA port	CRT interface integrated in AMD® Geode LX800, with one VGA port
USB	2 x USB 2.0 compliant	2 x USB 2.0 compliant
Serial Port	Two RS-232	
Storage	Compact flash socket for CompactFlash Type I/II disks	Compact Flash socket for CompactFlash Type I/II disks 1 x 2.5" HDD (optional)
Chassis Construction	Heavy duty metal	
System Cooling	Fanless with heatsink and heat pipe	
Power Supply	Internal DC-to-DC power converter, input voltage: 12VDC. WD series input voltage: 9 VDC ~ 36 VDC External power adaptor, input voltage: 90 VAC ~ 240 VAC @ 50 ~ 60 Hz, 45 W	
Operating Shock	3G acceleration peak to peak (11ms)	
Operating Vibration	MIL-STD-810F 514.5C-1	
Operating Temperature	With industrial grade CompactFlash: 0~50°C , with hard drive: 0~45°C	
Operation Humidity	10% ~ 90%	
Color	S: Silver grey	
Weight (Net/Gross)	1.8 kg / 2.2 kg	2.3 kg / 3.2 kg
Mounting	Mounting Wall mount / DIN mount (with optional DIN mount kit)	
Dimensions (DxWxH)	163 mm x 200 mm x 60 mm	178 mm x 230 mm x 60 mm
EMC	FCC Class A, CE	

Ordering Information

DC 12V input

Part No.	Description
ECW-180BS1-R12/256MB	CF only embedded system with WAFER-LX, AMD Geode LX-800 500MHz CPU, 256MB DDR memory, fanless, 12VDC in, silver grey, RoHS
ECW-181BS1-R12/256MB	Embedded system with WAFER-LX, AMD Geode LX-800 500MHz CPU, 256MB DDR memory, fanless, 12VDC in, silver grey, RoHS

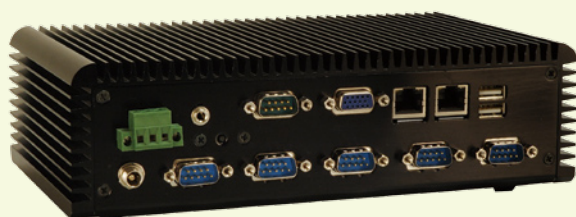
DC 9V~36V input

Part No.	Description
ECW-180BS1WD-R12/256MB	CF only embedded system with WAFER-LX, AMD Geode LX-800 500MHz CPU, 256MB DDR memory, fanless, DC 9~36V input, silver grey, RoHS
ECW-181BS1WD-R12/256MB	Embedded system with WAFER-LX, AMD Geode LX-800 500MHz CPU, 256MB DDR memory, fanless, DC 9~36V input, silver grey, RoHS

*9 VDC ~ 36 VDC input models do not include AC-DC power adapter in package.

ECW-281B-8522

WAFER-8522 Embedded Fanless Solutions



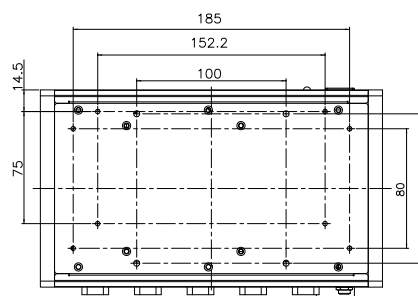
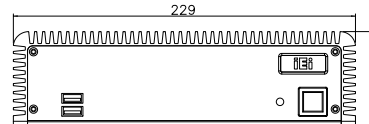
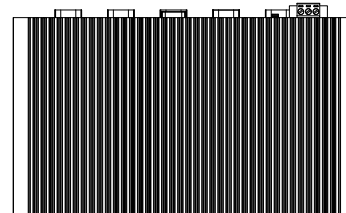
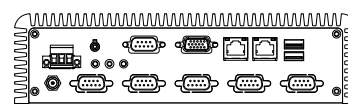
Features

- ◆ ULV Intel® Celeron® M 1GHz fanless system
- ◆ Four USB 2.0, six COM ports for peripheral devices
- ◆ Dual GbE LAN Ideal for high speed network application
- ◆ VESA 100 wall mount, DIN-mount
- ◆ 12 VDC, 9 VDC ~ 36 VDC input models available
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

Model No.	ECW-281B-8522
SBC	WAFER-8522
Processor	ULV Intel® Celeron® M 1 GHz zero cache
Chipset	Intel® 852GM + ICH4
System Memory	200-pin 512 MB/1 GB 266 MHz single-channel DDR SDRAM SO-DIMM
Ethernet	Dual Realtek RTL8110SC GbE controllers
Display	CRT interface integrated in 852GM with one VGA port
USB	4 x USB 2.0
Serial Port	5 x RS-232, 1x RS-232/422/485 selectable
Audio	1 x speaker out
Storage	1 x 2.5" IDE HDD capacity
Power Input	12VDC in with DC jack and 3-pin terminal block WD series input voltage: 9 VDC ~ 36 VDC
Power Consumption	27 W
Chassis Construction	Aluminum Alloy
Operating Temperature	0°C~50°C
Operating shock	Half-sine wave shock 3G; 11ms; 3 shocks per axis
Operating Vibration	MIL-STD-810F 514.5C-1 (HDD) MIL-STD-810F 514.5C-2 (CompactFlash)
Weight (Net/Gross)	2.1 kg / 3.9 kg
Dimensions (DxWxH)	132 mm x 229 mm x 64 mm
Mounting	Wall mount, VESA 100 wall mount (optional), DIN mount (optional)
EMC/Safety	CE, FCC class A

Dimensions (unit: mm)



Ordering Information

12VDC input

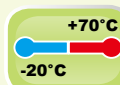
Part No.	CPU	Memory	Wireless
ECW-281B-8522-R10/512MB	ULV Intel® Celeron® M 1 GHz, zero cache	512 MB	N/A
ECW-281B-8522-R10/1GB		1 GB	N/A

9-36VDC input

Part No.	CPU	Memory	Wireless
ECW-281BWD-8522-R10/512MB	ULV Intel® Celeron® M 1 GHz, zero cache	512 MB	N/A
ECW-281BWD-8522-R10/1GB		1 GB	N/A

ECW-281B-945GSE/945GSE2

**Fanless Intel® Atom™ Processor
Embedded System**



Features

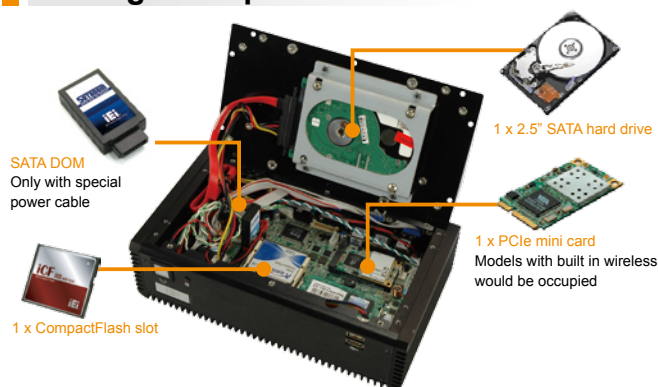
- ◆ Intel® Atom™ Processor N270 1.6GHz fanless system
- ◆ Four USB 2.0, six COM ports for peripheral devices
- ◆ Dual GbE LAN Ideal for high speed network application
- ◆ Storage support for both CompactFlash and SATA hard drive
- ◆ 12 VDC, 9 VDC - 36 VDC input models available
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

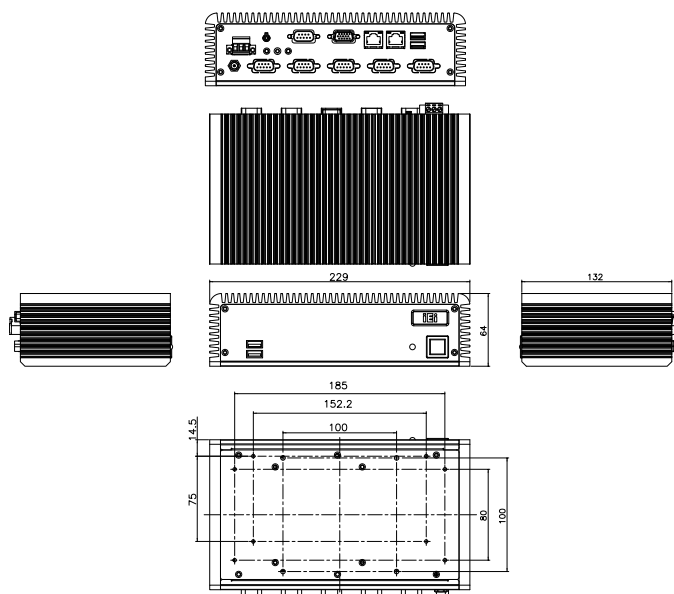
Model No.	ECW-281B-945GSE	ECW-281B-945GSE2
SBC	WAFER-945GSE-N270	
Processor	Intel® Atom™ Processor N270 1.6GHz with 533 FSB	
Chipset	Intel® 945GSE + Intel® 82801GBM/ICH7M	
System Memory	200-pin 1GB DDR2 SDRAM SO-DIMM	
Ethernet	Dual Realtek RTL8111CP GbE controllers	
Display 1	CRT interface integrated in 945GSE with one VGA port	
Display 2	N/A	* LVDS to VGA with one VGA port
USB	4 x USB 2.0	
Serial Port	6 x RS-232	5 x RS-232
Audio	1 x speaker out	
Storage	1 x 2.5" SATA HDD capacity, 1 x internal CompactFlash slot	
Power Input	12VDC in with DC jack and 3 pin terminal Block WD series input voltage: 9V~36VDC	
Power Consumption	19W	
Chassis Construction	Aluminum Alloy	
Operating Temperature	-10°C~50°C with hard drive -10°C~60°C with CompactFlash	
Operating shock	Half-sine wave shock 3G; 11ms; 3 shocks per axis	
Operating Vibration	MIL-STD-810F 514.5C-1 (HDD) MIL-STD-810F 514.5C-2 (CompactFlash)	
Weight (Net/Gross)	2.1kg / 3.9 kg	
Dimensions (DxWxH)	132mm x 229mm x 64mm	
Mounting	Wall mount, VESA 100 wall mount (optional), DIN mount (optional)	
EMC/Safety	CE, FCC class A	

* Please refer to the spec comparison table in datasheet for detail information.

Storage & Expansions



Dimensions (unit: mm)



DIN Mount



Adjustable to fit with different rail width

Wall Mount



VESA 100 wall mount kit

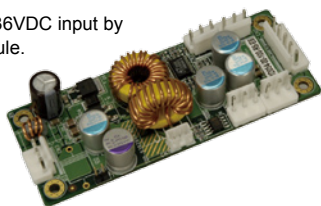
WK-084MS-R10

9 VDC ~ 36 VDC Input DC-DC Module

ECW-281B series can accept 9~36VDC input by installing a DC-to-DC power module.

IDD-936260A

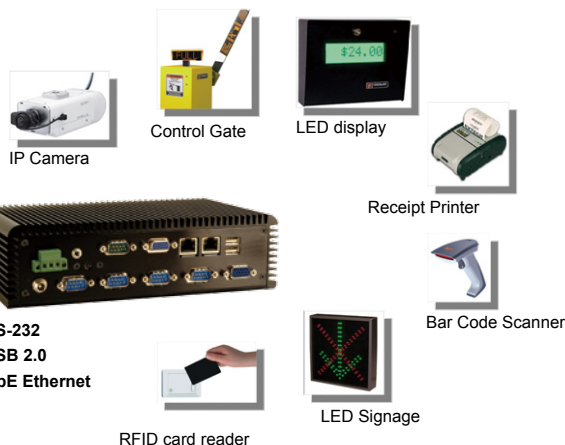
Input range: 9-36VDC
Output: 12 V @ 3 A (Max.)
5 V @ 10 A (Max.)
5 VSB @ 0.5 A (Max.)



ECW-281B has two power input interfaces: 3-pin terminal block or DC power jack.



Extension Friendly in Compact Size



6 x RS-232
4 x USB 2.0
2 x GbE Ethernet

RFID card reader

Packing List

1 x QIG	1 x User manual CD
1 x Screw set	1 x Power adaptor (optional for WD models)
1 x Wall mount kit	1 x Power cord (optional for WD models)
1 x Hard drive thermal pad	1 x 2dbi wireless antenna (for wireless model only)
1 x Driver CD	

ECW-281B-945GSE series Key Spec Comparison

	ECW-281B-945GSE	ECW-281B-945GSE2
Main board	WAFAER-945GSE-N270	
Display 1	CRT interface integrated in 945GSE with one VGA port Resolution support up to 2048 x 1536 Resolution adjustable by OS	
Display 2	N/A	By LVDS with LVDS-VGA-R10 Resolution support: 800 x 600, 1024 x 768 Resolution adjustable by BIOS only
COM port	6 x RS-232	5 x RS-232

Ordering Information

12VDC input

Part No.	Description
ECW-281B-945GSE-R10/N270/1GB	Fanless embedded system with Intel® Atom™ Processor N270 1.6GHz CPU, 945GSE, built-in 1GB DDR2 memory, 12VDC in, with 60W power adaptor, black, RoHS
ECW-281B-945GSE-W-R10/N270/1GB	Fanless embedded system with Intel® Atom™ Processor N270 1.6GHz CPU, 945GSE, built-in 802.11b/g wireless, with 1GB DDR2 memory, with 60W adaptor, 12VDC in, black, RoHS
ECW-281B-945GSE2-R10/N270/1GB	Fanless embedded system with Intel® Atom™ Processor N270 1.6GHz CPU, 945GSE, dual VGA, built-in 1GB DDR2 memory, 12VDC in, with 60W power adaptor, black, RoHS
ECW-281B-945GSE2-W-R10/N270/1GB	Fanless embedded system with Intel® Atom™ Processor N270 1.6GHz CPU, 945GSE, dual VGA, built-in 802.11b/g wireless, with 1GB DDR2 memory, 60W adaptor, 12VDC in, black, RoHS
ECW-281B-N270-WT-R10/1GB	Extend temperature fanless embedded system with Intel® Atom™ Processor N270 1.6GHz CPU, 945GSE, built-in 1GB DDR2 memory, 12VDC in, w/o power adapter, black, RoHS

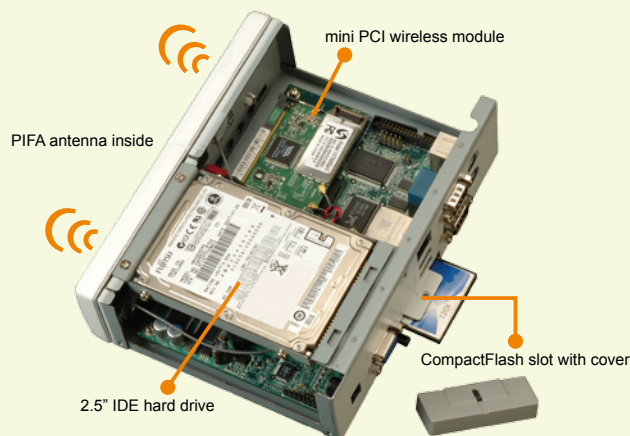
9~36VDC input

Part No.	Description
ECW-281BWD-945GSE-R10/N270/1GB	Fanless embedded system with Intel® Atom™ Processor N270 1.6GHz CPU, 945GSE, built-in 1GB DDR2 memory, 9-36VDC in, black, RoHS
ECW-281BWD-945GSE-W-R10/N270/1GB	Fanless embedded system with Intel® Atom™ Processor N270 1.6GHz CPU, 945GSE, built-in 802.11b/g wireless, with 1GB DDR2 memory, 9-36VDC in, black, RoHS
ECW-281BWD-945GSE2-R10/N270/1GB	Fanless embedded system with Intel® Atom™ Processor N270 1.6GHz CPU, 945GSE, dual VGA, built-in 1GB DDR2 memory, 9-36VDC in, black, RoHS
ECW-281BWD-945GSE2-W-R10/N270/1GB	Fanless embedded system with Intel® Atom™ Processor N270 1.6GHz CPU, 945GSE, dual VGA, built-in 802.11b/g wireless, with 1GB DDR2 memory, 9-36VDC in, black, RoHS

Embedded OS

Part No.	Description
ECWCWF-281B-945GSE-XPE	Windows XP Embedded OS image, for ECW-281B-945GSE, with 1GB compactFlash memory card, RoHS
ECWCWF-281B-945GSE-CE060	Windows CE 6.0 OS image, for ECW-281B-945GSE, with 128MB compactFlash memory card, RoHS

IBX-100 Fanless AMD® Geode LX / GX Embedded System



Features

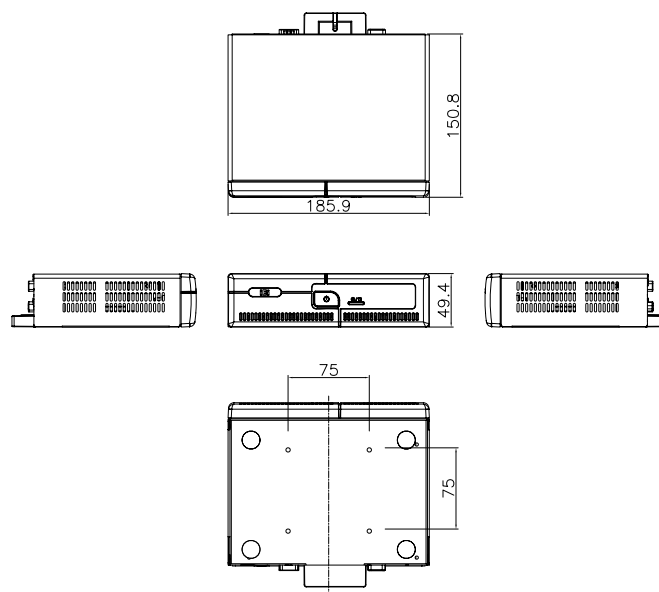
- ◆ IBX-100-GX2's memory onboard design ideal for robust operating environment
- ◆ Built-in 802.11b/g wireless with PIFA antenna
- ◆ Supports one 2.5" hard drive and one CompactFlash
- ◆ Rear-accessible CompactFlash slot with plastic cover protected
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery



Specifications

Model No.	IBX-100-LX2	IBX-100-GX2
SBC Inside	NANO-LX2	NANO-GX2
CPU	AMD® Geode LX-800 500MHz	AMD® Geode GX-466 333MHz
Chipset	CS5536	CS5536
System Memory	One 200-pin 333/400MHz DDR SDRAM SO-DIMM supported (system max. 1GB)	128MB / 256MB DDR266 onboard
Ethernet	Two 10/100Mbps RTL8100C Ethernet Controllers	One 10/100Mbps RTL8100C Ethernet Controllers
Wireless	Built-in 802.11b/g mini PCI module	
Display	CRT interface integrated in AMD® Geode LX800, with one VGA port	CRT interface integrated in AMD® Geode GX466, with one VGA port
USB	Two USB 2.0 ports	
Serial Port	Two RS-232	
Storage	One CompactFlash slot and one 2.5" IDE hard drive	
Power	5VDC input with 25W AC-DC adaptor	
Operating Temperature	0°C ~ 45°C	
Operating Vibration	MIL-STD-810F 514.5C-1 (with hard drive) MIL-STD-810F 514.5C-2 (with CompactFlash)	
Operating Shock	Half-sine wave shock 3G; 11ms; 3 shocks per axis	
Weight (Net/Gross)	880 g / 2.1 kg	
Dimensions (DxWxH)	150.8 mm x 185.9 mm x 49.4 mm	

Dimensions (Unit:mm)

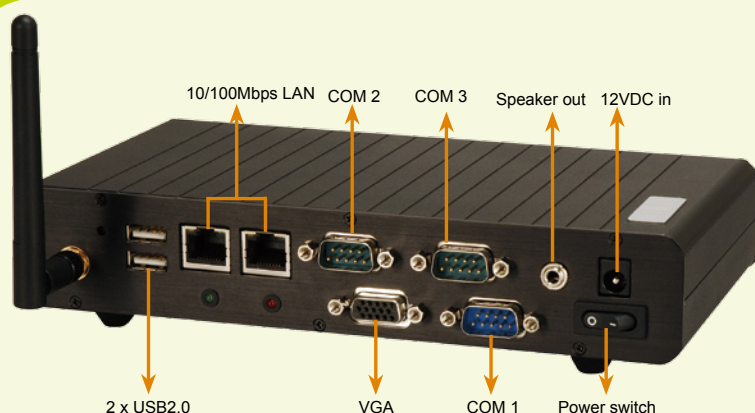


Ordering Information

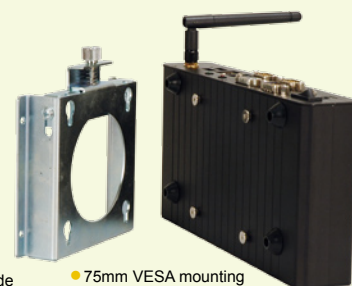
Part No.	Description
IBX-100-GX2-R10/128MB	Embedded system with AMD® Geode GX466 333MHz CPU, 128MB DDR memory onboard, built-in 802.11b/g wireless, 5VDC in, with 25W adaptor, white
IBX-100-GX2-R10/256MB	Embedded system with AMD® Geode GX466 333MHz CPU, 256MB DDR memory onboard, built-in 802.11b/g wireless, 5VDC in, with 25W adaptor, white
IBXCF-100-GX2-CE	OS Image with WINCE, for IBX-100-GX2, with Compact Flash Memory Card 128MB, RoHS
IBXCF-100-GX2-XPE	OS Image with Windows XPE, for IBX-100-GX2, with Compact Flash Memory Card 1GB, RoHS
IBX-100-LX2-R10/256MB	Embedded system with AMD® Geode LX800 500MHz CPU, built-in 802.11b/g wireless, 256MB DDR memory, 5VDC in, with 25W adaptor, white, RoHS
IBXCF-100-LX2-CE	OS Image with WINCE, for IBX-100-LX2, with Compact Flash Memory Card 128MB, RoHS
IBXCF-100-LX2-XPE	OS Image with Windows XPE, for IBX-100-LX2, with Compact Flash Memory Card 1GB, RoHS

IBX-500A

AMD® LX-800 Fanless Embedded System with 802.11b/g Wireless Support



• CompactFlash opening on the side of the box with rubber cover.



• 75mm VESA mounting hole at the back.

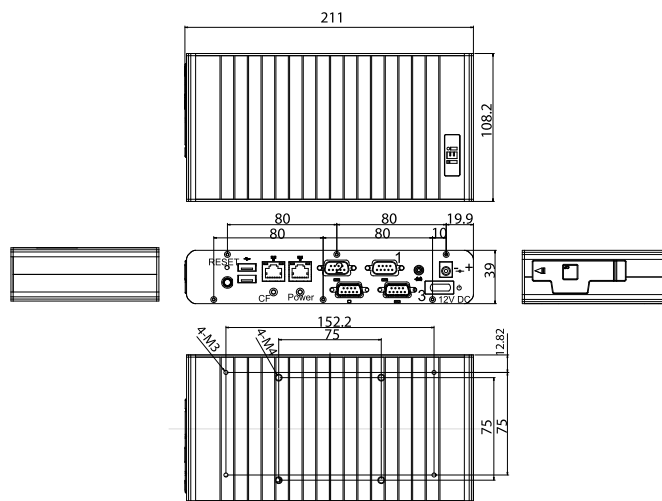
Features

- ◆ AMD® LX 800 500 MHz fanless solution
- ◆ Dual 10/100 Mbps Ethernet and three RS-232 ports
- ◆ Built-in 802.11b/g wireless module
- ◆ Wall and VESA mounts for flexible installation

Specifications

Processor	AMD® Geode LX 800 500 MHz
Chipset	AMD® LX 800 + CS-5536
System Memory	256 MB / 512 MB DDR memory
Display	CRT interface integrated in AMD® Geode LX800, with one VGA port
Ethernet	2 x 10/100 Mbps
Wireless	VIA VT6655 802.11b/g compliance
SSD	1 x CompactFlash type I/II
Audio	1 x Speaker-Out (AC'97)
I/O Ports	3 x RS 232 COM Port 2 x USB 2.0
Power	12 VDC in with 100-240 AC in, 36 W AC-DC adapter
Operation Temp.	0°C ~ 50°C
Color	Black
Mounting	Wall mount, VESA 75 wall mount (optional), DIN mount (optional)
Dimensions (L x W x H)	210 mm x 109 mm x 38 mm
Net Weight	645 g
EMC	CE / FCC class A

Dimensions (Unit:mm)



Packing List

1 x QIG	1 x Power cord
1 x Screw set	1 x Driver CD
	1 x Manual CD
2 x Mounting brackets	1 x Wireless antenna
1 x Power adaptor	4 x Foot pad

Ordering Information

Part No.	Description
IBX-500A/256MB	Embedded Fanless Box Server with AMD® LX 800 CPU, wireless module and 256 MB DDR RAM, RoHS
IBX-500A/512MB	Embedded Fanless Box Server with AMD® LX 800 CPU, wireless module and 512 MB DDR RAM, RoHS
IBXCF-500A-CE	Windows CE 5.0 OS image for IBX-500A, with 128 MB Compact Flash Memory Card, RoHS
IBXCF-500A-XPE	Windows XP Embedded OS image for IBX-500A, with 1 GB Compact Flash Memory Card, RoHS

IBX-530-945GSE

Fanless Intel® Atom™ Embedded System



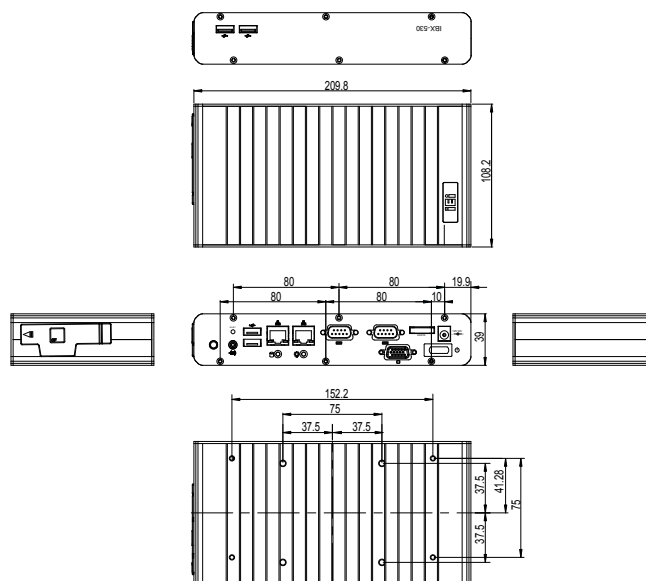
Features

- ◆ Intel® Atom™ N270 1.6GHz solution
- ◆ Intel® Graphics Media Accelerator 950 for better graphic performance
- ◆ Supports Hyper-Threading Technology
- ◆ Fan-less operation under -10°C to 50°C

Specifications

Processor	Intel® Atom™ Processor N270 1.6GHz with a 533Mhz FSB
Chipset	Intel® 945GSE / Intel® 82801GBM/ICH7M
System Memory	1 x 200 pin DDR2 SO-DIMM slot, built in 1GB
Ethernet	Dual GbE, Realtek RTL8111CP
Display	VGA, integrated in 945GSE
I/O Interface	4 x USB 2.0
	2 x RS-232
	1 x external SATA
Wireless	IBX-530W-945GSE with built-in 802.11b/g wireless
	IBX-530-945GSE without wireless function
Audio	1 x speaker out
Storage	1 x CompactFlash slot
Power Input	12VDC in by power adaptor
Chassis Construction	Aluminum Alloy
Operating Temperature	-10°C ~ 50°C
Weight (Net/Gross)	645g / 1.8Kg
Dimensions (DxWxH)	210mm x 108.2mm x 39mm
Mounting	Wall mount, VESA 75 wall mount (optional), DIN mount (optional)
EMC/Safety	CE, FCC class A
Embedded OS	XPE & CE 6.0

Dimensions unit: mm



Packing List

1 x power adaptor	1 x power cord
1 x screw set with mini jumper	1 x driver & manual CD
1 x wall mount kit	1 x 2dbi wireless antenna
4 x foot pad with screws	

Ordering Information

Part No.	Description
IBX-530-945GSE-R10/1GB	Fanless embedded system Intel® Atom™ Processor N270 1.6GHz CPU, Intel® 945GSE, built in 1GB DDR2 memory, 12VDC in, with 36W adaptor, black, RoHS
IBX-530W-945GSE-R10/N270/1GB	Fanless embedded system Intel® Atom™ Processor N270 1.6GHz CPU, Intel® 945GSE, built in 1GB DDR2 memory, built-in 802.11b/g wireless, 12VDC in, with 36W adaptor, black, RoHS
IBXCF-530-945GSE-CE060	WINCE 6.0 OS Image for IBX-530-945GSE, with 128MB compact flash memory card, RoHS
IBXCF-530-945GSE-XPE	Windows® XPE OS image, for IBX-530-945GSE, with 1GB compact flash memory card, RoHS

1
Industrial
Computing
Solutions

2
Embedded
Computing
Solutions

3
Industrial Data
Collector
and Controller

4
Video
Capture
Solutions

5
I/O
Communication
Solutions

6
Panel
Solutions

7
ORing
Network
Communication

8
Power Supply/
Peripherals

IBX-600-9102UPS

Mini ITX Intel® Celeron® M Solution with AUPS sub-system Support



IEEE 1394 port

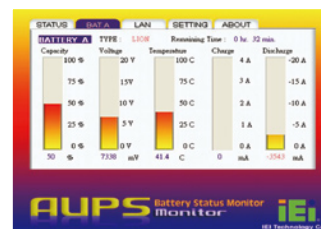


Features

- ◆ Intel® Celeron® M 1.0GHz Mini ITX solution
- ◆ Supports Slim ODD, 2.5" hard drive and CompactFlash
- ◆ UPS function by Li-ion battery with easy assembly design
- ◆ Built-in 802.11b/g wireless with FIPA antenna
- ◆ 12 VDC ~ 24 VDC wide range input
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery

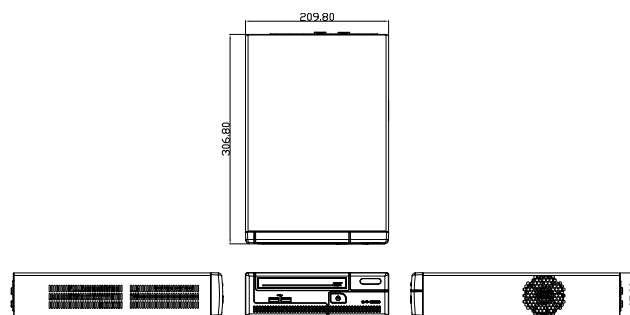
Specifications

Model	IBX-600-9102	IBX-600-9102UPS
SBC	eKINO-9102	
Processor	Intel® Celeron® M 1GHz 512K cache with 400 MHz FSB	
Chipset	Intel® 910GML + Intel® ICH6M	
System Memory	200-pin 1GB DDR2 SDRAM SO-DIMM	
Ethernet	Realtek RTL8111CP GbE controllers	
Wireless	built in 802.11b/g wireless, PCIe mini card formfactor with USB interface	
Display	CRT interface integrated in 910GML with one VGA port	
USB	6 x USB 2.0	
Firewire	1 x IEEE 1394	
Serial Port	3x RS-232	
Audio	1 x mic in , 1 x speaker out	
Storage	1 x slim type ODD, 1 x 2.5" SATA HDD, 1 x CompactFlash slot	
Power Input	12 VDC ~ 24 VDC in with 4 pin DC power DIN connector Ship with 60W power adaptor	
UPS Function	N/A	7.4V 2S2P 3800mAh Li-Ion smart battery
Chassis Construction	Heavy duty metal with plastic front panel	
Operating Temperature	0°C~45°C	0°C~40°C
Operating shock	Half-sine wave shock 3G; 11ms; 3 shocks per axis	
Operating Vibration	MIL-STD-810F 514.5C-1 (HDD) MIL-STD-810F 514.5C-2 (CompactFlash)	
Weight (Net/Gross)	2.1 kg / 3.9 kg	2.8kg / 4.6kg
Dimensions (DxWxH)	306.8mm x 209.8mm x 65mm	
Mounting	wall mount	
EMC/Safety	CE, FCC class B	



IEI Smart Battery Monitoring Software.
Can support remote monitoring from RJ-45.

Dimensions unit: mm



Packing List

1 x QIG	1 x SATA CD-ROM cable
1 x screw set with mini jumper	1 x driver & manual CD
1 x wall mount kit	1 x power cord
1 x power adaptor	4 x foot pad

Ordering Information

Part No.	Description
IBX-600-9102-R10/CM373/1GB	Embedded system, Intel® Celeron® M 1 GHz 512K cache CPU, Intel® 910GML, built in 1GB DDR2 memory, built-in 802.11b/g wireless, 12~24VDC in, with 60W adaptor, white, RoHS
IBX-600-9102UPS-R10/CM373/1GB	Embedded system with UPS function, Intel® Celeron® M 1 GHz 512K cache CPU, Intel® 910GML, built in 1GB DDR2 memory, built-in 802.11b/g wireless, Li-ion Battery(2S2P); 7.4V;3800mAh, 12~24VDC in, with 60W adaptor, white, RoHS

IBX-600-945GSE *Mini ITX Intel® Atom™ Processor N270 Solution with AUPS sub-system Battery Support*



Features

- ◆ Intel® Atom™ Processor N270 1.6GHz Mini ITX solution
- ◆ Supports Slim ODD, 2.5" hard drive
- ◆ UPS function by Li-ion battery with easy assembly design
- ◆ Built-in 802.11b/g wireless with PIFA antenna
- ◆ 12 VDC ~ 24 VDC wide range input
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

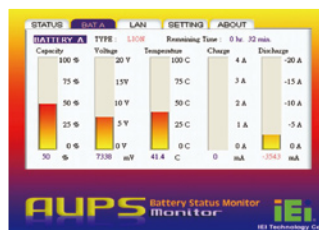
Model	IBX-600-945GSE	IBX-600-945GSEUPS
SBC	eKINO-945GSE-N270	
Processor	Intel® Atom™ Processor N270 1.6GHz with 533 FSB	
Chipset	Intel® 945GSE + Intel® 82801GBM/ICH7M	
System Memory	200-pin 1GB DDR2 SDRAM SO-DIMM	
Ethernet	Dual Realtek RTL8111CP GbE controllers	
Wireless	built in 802.11b/g wireless, PCIe mini card form factor with USB interface	
Display	VGA interface integrated in 945GSE DVI -D support by Silicon Image Sil1362	
USB	6 x USB 2.0	
Serial Port	2x RS-232	
Audio	1 x mic in , 1 x speaker out	
Storage	1 x slim type ODD, 1 x 2.5" SATA HDD	
Power Input	12 VDC ~ 24 VDC in with 4 pin DC power DIN connector Ship with 60W power adaptor	
UPS Function	N/A	7.4V 2S2P 3800mAH Li-Ion smart battery
Chassis Construction	Heavy duty metal with plastic front panel	
Operating Temperature	0°C~45°C	0°C~40°C
Operating shock	Half-sine wave shock 3G; 11ms; 3 shocks per axis	
Operating Vibration	MIL-STD-810F 514.5C-1 (HDD) MIL-STD-810F 514.5C-2 (CompactFlash)	
Weight (Net/Gross)	2.1 kg / 3.9 kg	2.8kg / 4.6kg
Dimensions (DxWxH)	306.8mm x 209.8mm x 65mm	
Mounting	wall mount	
EMC/Safety	CE, FCC class A	

Ordering Information

Part No.	Description
IBX-600-945GSE-R10/N270/1GB	Embedded system, Intel® Atom™ Processor N270 1.6GHz CPU, 945GSE, built in 1GB DDR2 memory, built-in 802.11b/g wireless, 12~24VDC in, with 60W adaptor, white, RoHS
IBX-600-945GSE-UPS-R10/N270/1GB	Embedded system with UPS function, Intel® Atom™ Processor N270 1.6GHz CPU, 945GSE, built in 1GB DDR2 memory, built-in 802.11b/g wireless, Li-ion Battery(2S2P); 7.4V;3800mAh, 12~24VDC in, with 60W adaptor, white, RoHS
IBXCF-600-945GSE-XPE	Windows XP Embedded OS Image, for IBX-600-945GSE, with Compact Flash Memory Card 1GB, RoHS
IBXCF-600-945GSE-CE060	Windows CE 6.0 OS Image, for IBX-600-945GSE, with Compact Flash Memory Card 128MB, RoHS

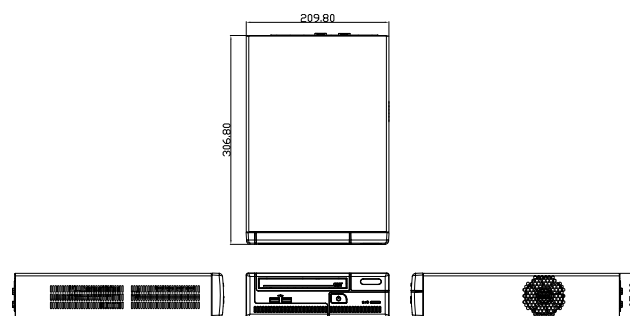
Value-added AUPS applications

AUPS software utility and web-based program allows user to monitor the AUPS sub-system real time status and remotely control the system to power on/off from anywhere anytime through network. Remote management software allows users to use static IP or DHCP for network setting.



IEI Smart Battery Monitoring Software.
Can support remote monitoring from RJ-45.

Dimensions unit: mm



Packing List

1 x QIG	1 x Power cord
1 x Screw set with mini jumper	1 x SATA CD-ROM cable
1 x Wall mount kit	1 x Driver & manual CD
1 x Power adaptor	4 x Foot pad

1
Industrial
Computing
Solutions

2
Embedded
Computing
Solutions

3
Industrial Data
Collector
and Controller

4
Video
Capture
Solutions

5
I/O
Communication
Solutions

6
Panel
Solutions

7
ORing
Network
Communication

8
Power Supply/
Peripherals

IBX-650A

Intel® ULV Celeron® M 1GHz Fanless Embedded System



Features

- ◆ ULV Intel® Celeron® M 1 GHz zero cache with 852GM chipset
- ◆ One 2.5" hard drive bay and one CompactFlash slot
- ◆ VESA and DIN mount compatible design
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

SBC	ENANO-8523-1GZ-R10
CPU	ULV Intel® Celeron® M 1 GHz zero L2 cache
Chipset	Intel® 852GM + ICH4
System Memory	Pre-installed 200-pin 512 MB 266 MHz DDR SO-DIMM
Display	CRT interface integrated in 852GM with one VGA port
Ethernet	1 x 10/100Mbps Intel® 82562ET LAN
Audio	1 x line-in, 1 x line-out, 1 x spk-out
USB	3 x USB2.0
Serial Port	3 x RS-232
LED	Power, HDD
Switch	Power, reset
Storage	1 x CompactFlash slot, 1 x 2.5" IDE hard drive
LPT Port	1 x LPT
Chassis Construction	Aluminum alloy with heavy duty metal
Power in	12 VDC in with DC jack
Operating Temperature	With CompactFlash: 0~50°C, with hard drive: 0~45°C
Operating Shock	Half-sine wave shock 3G; 11ms, 3 shock per axis
Operating Vibration	MIL-STD-810F 514.5C-1(HDD) / MIL-STD-810F 514.5C-2(CFD)
Weight (Net / Gross)	2.75 kg / 4.1 kg
Dimensions (DxWxD)	170 mm x 210.2 mm x 68.75 mm
Mounting	VESA 75 mount (optional), DIN mount (optional)
EMC	CE / FCC class A

Storage Devices

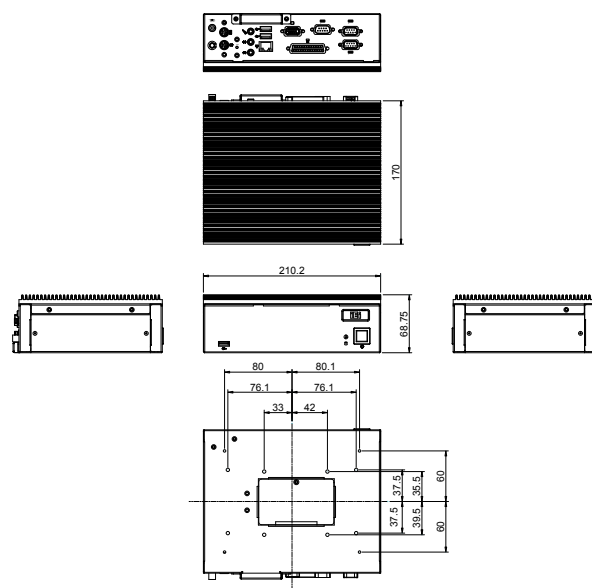


- 1 x CompactFlash slot
Front-accessible with I/O cover



- 1 x 2.5" HDD drive bay
IDE interface only

Dimensions (unit:mm)



Ordering Information

Part No.	Description
IBX-650A-R10/512MB	Fanless embedded system with ENANO-8523, Intel® 852GM, ULV Intel® Celeron® M 1 GHz zero cache CPU, FSB 400 MHz, 1x Intel® 82526ET 10/100M LAN, with 512 MB DDR266 memory, 55 W power adaptor, 12 VDC, black, RoHS
IBX-650AW-R10/512MB	Fanless embedded system with ENANO-8523, Intel® 852GM, ULV Intel® Celeron® M 1 GHz zero cache CPU, FSB 400 MHz, 1x Intel® 82526ET 10/100M LAN, VIA 802.11b/g wireless module, with 512 MB DDR266 memory, 55 W power adaptor, 12 VDC, black, RoHS

EBC-1000G

Embedded Chassis for WAFER Series SBC

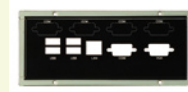


HDD is not included in package.

EBC-1000G with WAFER-LX2 and BK-LX2-RS

Features

- ◆ RoHS compliant design
- ◆ One 2.5" hard drive bay
- ◆ One 4 cm cooling fan
- ◆ AC/DC power supply compatible



BK-LX2-RS



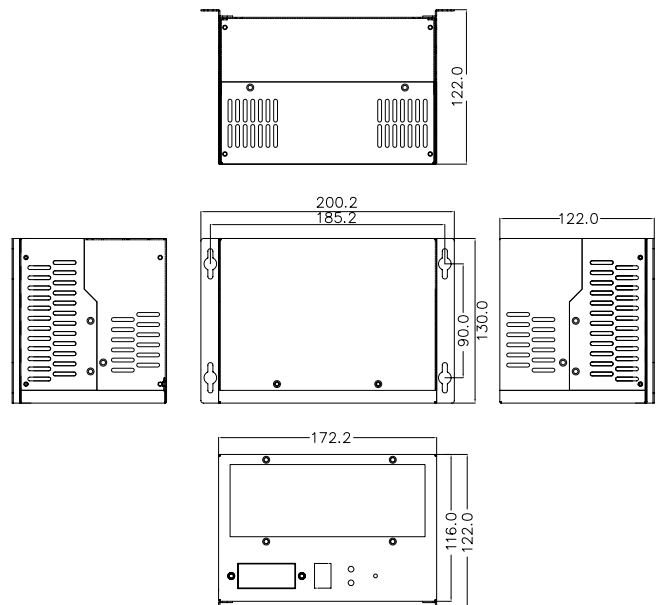
BK-LX800-RS

SBC model	WAFER-945GSE2	WAFER-US15WP	WAFER-LX2	WAFER-LX	WAFER-GX
SBC					
CPU	Intel® Atom™ 1.6GHz 533MHz	Intel® Atom™ 1.6GHz 533MHz/ 1.1GHz 400MHz	AMD® Geode LX 800 500 MHz	AMD® Geode LX 800 500 MHz	AMD® Geode GX 466 333 MHz
I/O Bracket	BK-LX800-RS-R11	BK-LX2-RS	BK-LX2-RS with 4 x COM	BK-LX800-RS-R11 with 2 x PS/2	BK-LX800-RS-R11 with 2 x PS/2

Specifications

Construction	Heavy duty metal
SBC Form Factor	3.5" WAFER series SBC
Drive Bays	1 x 2.5" HDD
Cooling Fans	1 x 4 cm
Indicators	Power, HDD
Buttons	Power switch
Operating Temperature	0°C~50°C
Operation Humidity	10% ~ 90%
Color	B: Black
Weight (Net/Gross)	1.2 kg / 2.2 kg
Dimensions (DxWxH)	130 mm x 172.2 mm x 116 mm
Mounting	Wall mount

Dimensions



Ordering Information

Part No.	Description
EBC-1000GB/ACE-890AP	Industrial embedded chassis for WAFER series SBC, black, with ACE-890AP-RS, RoHS
BK-LX800-RS-R11	I/O bracket for WAFER-LX/ GX, black, RoHS
BK-LX2-RS-R10	I/O bracket for WAFER-LX2-800, black, RoHS

Power Supply Options

Type	Model No.	Input Type	Watt
AT	ACE-890A-RS	AC	86W
	ACE-890AP-R20-RS	AC	86W
	ACE-890V-RS	12 VDC	72W
	ACE-890C-RS	24 VDC	86W
	ACE-890T-RS	48 VDC	86W
	ACE-890P-RS	100 VDC	86W

EBC-2100/2101

Embedded Chassis for EPIC NANO Series



EBC-2100

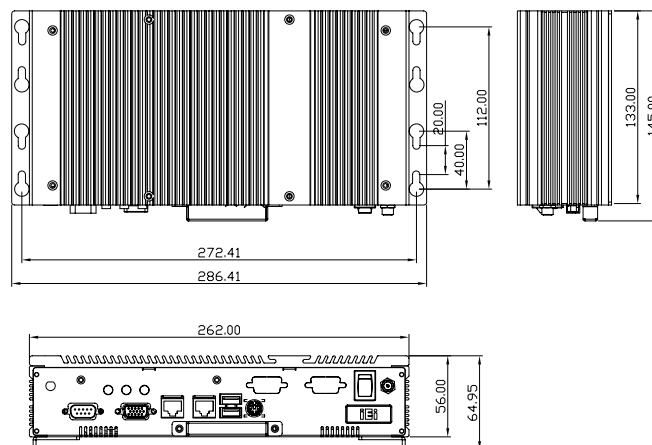


EBC-2101

Specifications

	EBC-2101-R10	EBC-2100-R30
Compatible SBC	NANO-945GSE-N270	NANO-8522 NANO-LX NANO-GX
Drive Bays	1x 2.5" hard drive bay, IDE or SATA	
System Fans	1 x 4cm, optional	
Expansion I/O openings	2 x COM 1 x wireless antenna 1 x AC-KIT08-R10	2 x COM 1 x LPT 4 x audio jack
Expansion Slots	Sufficient space for one PCI-104 module inside	
Power	AT mode only, with 12VDC 60W power adaptor	
Chassis Construction	Aluminum Alloy	
Operating Temperature	0~50°C	
Operating Humidity	10% ~90%	
Weight (Net/ Gross)	1Kg / 3Kg	
Color	Pantone Gray 7C	
Dimensions (DxWxH)	134 mm x 262 mm x 56 mm	
Mounting	wall mount	

Dimensions (Unit:mm)



Packing List

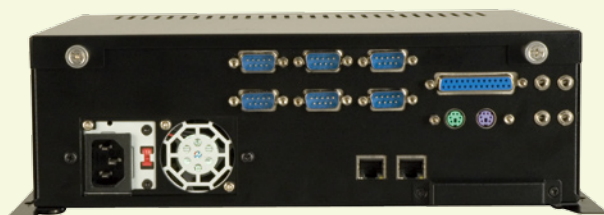
- 1 x EBC-2101-R10 / EBC-2100-R30 chassis
- 1 x 60W power adaptor
- 1 x power cord
- 1 x wall mount kit
- 1 x screw set
- 1 x QIG

Ordering Information

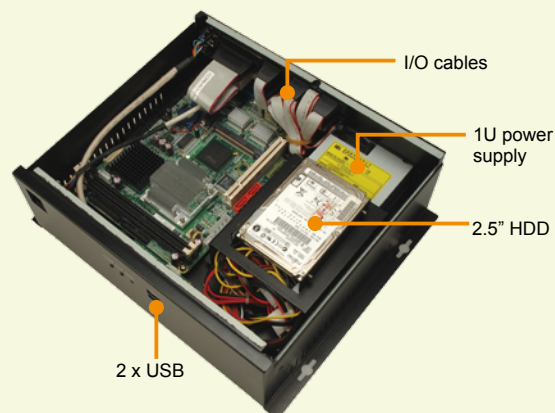
Part No.	Description
EBC-2100-R30	Embedded chassis for NANO-8522G/8522E/GX/LX, compatible with 2.5" SATA and IDE hard drive, sliver, RoHS
EBC-2101-R10	Embedded chassis for NANO-945GSE-N270, compatible with 2.5" SATA and IDE hard drive, sliver, RoHS
32000-114001-RS	2.5" SATA HDD cable with 2-pin WAFER 2.0mm power cable, for NANO-945GSE-N270 in EBC-2101, 20cm
19100-000027-RS	4010 system fan, +12V ball bearing
32200-000037-RS	44-pin IDE cable for 2.5" hard drive

EB-2850G

Embedded Chassis for NOVA Series SBC

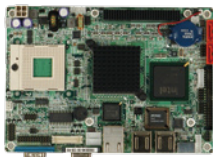


I/O panel of EB-2850G-8522



Features

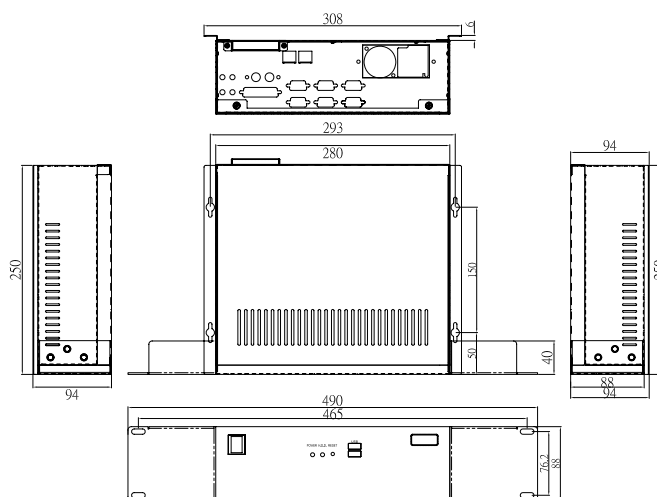
- ◆ RoHS compliant design
- ◆ One 2.5" hard drive bay
- ◆ Two USB ports on the front panel

SBC model	NOVA-8522G2
Picture	
CPU Type	Intel® Celeron® M 600MHz or 1GHz Intel® Pentium® M / Celeron® M

Specifications

Construction	Heavy duty metal
SBC Form Factor	NOVA embedded SBC
Drive Bays	1 x 2.5" HDD
Indicators	Power, HDD, reset button
Buttons	Power switch
Operating Temperature	0°C~50°C
Operating Humidity	10% ~ 90%
Color	B: Black
Weight (Net/Gross)	3.6 kg / 6.2 kg
Dimensions (DxWxH)	250 mm x 280 mm x 94 mm
Mounting	Wall mount, RACK-mount kit

Dimensions



Power Supply Options

Type	Model No.	Watt
ATX	ACE-4518AP-RS	180 W
	ACE-4525AP-RS	250 W

EB-2850G can support single 1U height PSU.
For more models of IEI PSU, please refer to section 8 or visit www.ieiworld.com.

Ordering Information

Part No.	Description
EB-2850GB-8522/ACE-4518AP	Embedded chassis for NOVA-8522, with ACE-4518AP-RS, black, RoHS

EBC-3000

Mini-ITX Chassis for High Power Consumption Application



Features

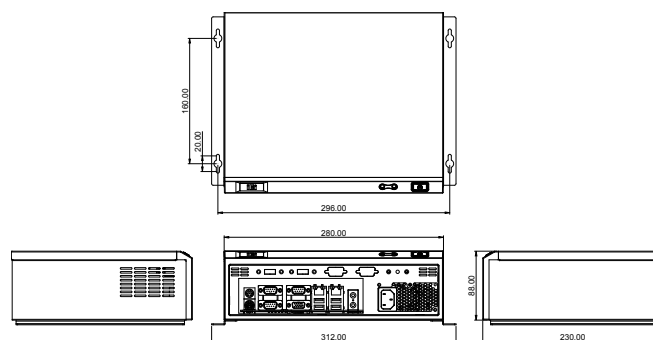
- ◆ Design for high performance application bundle with 270W high efficiency ATX power supply
- ◆ Front accessible I/O design
- ◆ One 3.5" hard drive capacity

Specifications

SBC Form Factor	Mini-ITX
Drive Bays	1x 3.5" hard drive
Cooling Fans	1 x 6cm
I/O Ports	2 x DB-9, 2 x USB
Indicators	Power, HDD LED
Buttons	Power switch, reset
Chassis Construction	Heavy duty metal with plastic front panel
Operating Temperature*	0°C~40°C
Operating Humidity	10% ~90%
Color	Black
Weight (Net / Goss)	2.5Kg / 3.9Kg
Dimensions (DxWxH)	230 mm x 280 mm x 88 mm
Mounting	Wall mount

* Operating temperature is determined by system thermal test running with KINO-9654G4, Pentium IV 3.4GHz processor 651 and 2GB DDR2 RAM.

Dimensions (unit:mm)



Compatible SBC

Part No.	Recomand CPU Cooler
KINO-G45A	CF-520-RS, CF-775B-RS
KINO-9454	CF-520-RS, CF-775B-RS
KINO-9652	CF-479B-RS
KINO-9453	CF-479B-RS
KINO-9452	CF-479B-RS
KINO-780AM2	CF-478D-RS

Ordering Information

Part No.	Description
EBC-3000-R10/ACE-A627A	Mini-ITX embedded chassis, one 3.5" hard drive bay, with ACE-A627A-RS 270W ATX power supply, black, RoHS
EBC-3000-R10/ACE-A618A	Mini-ITX embedded chassis, one 3.5" hard drive bay, with ACE-A618A-RS 180W ATX power supply, black, RoHS

Packing List

1 x EBC-3000	1 x QIG
1 x Wall mount kit	1 x Screw set
1 x Power cord	

EBC-3100

Mini-ITX Chassis for High Power Consumption Application



Features

- ◆ Design for high performance application, bundle with 270W high efficiency ATX power supply
- ◆ Front accessible I/O design
- ◆ Support one expansion slot
- ◆ One 3.5" hard drive, one slim type optical drive capacity

1

Industrial
Computing
Solutions

2

Embedded
Computing
Solutions

3

Industrial Data
Collector
and Controller

4

Video
Capture
Solutions

5

I/O
Communication
Solutions

6

Panel
Solutions

7

ORing
Network
Communication

8

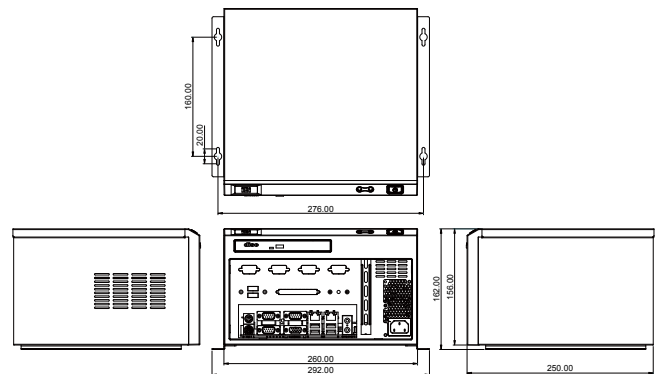
Power Supply/
Peripherals

Specifications

SBC Form Factor	Mini-ITX
Drive Bays	1x 3.5" hard drive, 1 x slim type optical drive
Cooling Fans	1 x 8 cm
I/O Ports	4 x DB-9, 2 x USB, 8 pin terminal block for DIO
Indicators	Power, HDD LED
Buttons	Power switch, reset
Expansion Slots	1 x full high expansion slot
Chassis Construction	Heavy duty metal with plastic front panel
Operating Temperature*	0°C~50°C
Operating Humidity	10% ~90%
Color	Black
Weight (Net / Goss)	3.4kg / 4.6kg
Dimensions (DxWxH)	250 mm x 260 mm x 156 mm
Mounting	Wall mount

* Operating temperature is determined by system thermal test running with KINO-9654G4, Pentium IV 3.4GHz processor 651 and 2GB DDR2 RAM.

Dimensions (unit:mm)



Compatible SBC

Part No.	Expansion Type	Recomand CPU Cooler
KINO-G45A	PCI	CF-520-RS, CF-775B-RS
KINO-9454	PCIe x 16	CF-520-RS, CF-775B-RS
KINO-9652	PCI	CF-479B-RS
KINO-9453	PCI	CF-479B-RS
KINO-9452	PCI	CF-479B-RS
KINO-780AM2	PCIe x 16	CF-478D-RS

Ordering Information

Part No.	Description
EBC-3100-R10/ACE-A627A	Mini-ITX embedded chassis, one 3.5" hard drive and one slim ODD bay, with ACE-A627A-RS 270W ATX power supply, black, RoHS
EBC-3100-R10/ACE-A618A	Mini-ITX embedded chassis, one 3.5" hard drive and one slim ODD bay, with ACE-A618A-RS 180W ATX power supply, black, RoHS

Packing List

1 x EBC-3100	1 x QIG
1 x Wall mount kit	1 x Screw set
1 x SATA slim ODD cable	1 x Power cord

EBC-3620

Chassis for Mini-ITX with Two Expansion Slots



Features

- ◆ Supports one slim ODD
- ◆ Aluminum Alloy front panel with two front-accessible USB ports
- ◆ Supports maximum two PCI cards or one PCIe cards
- ◆ Flexible storage drive support for 3.5" and 2.5"
- ◆ Optional riser card with two PCI slots

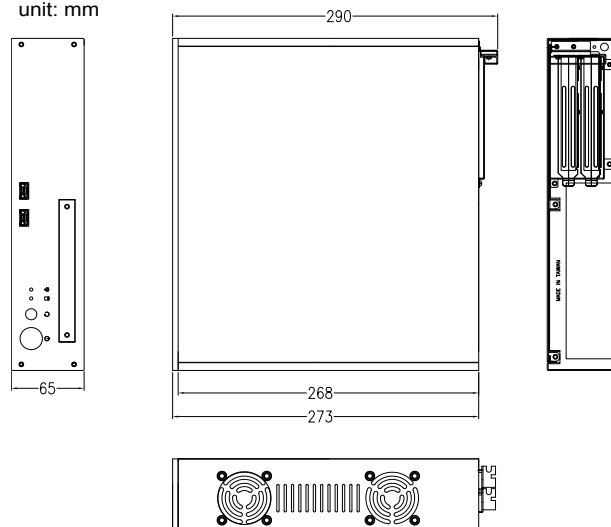
Specifications

Compatible SBC	KINO-9652			
Chassis Construction	Heavy duty metal			
System Cooling	2 x 5 cm fan			
Front Panel I/O	2 x USB port			
Front Panel Button	Power, reset			
Front Panel Indicator	Power, HDD			
Storage	ODD	Expansion Card	3.5" HDD	2.5" HDD
	1	1	1	0
	1	1	0	2
	1	2	0	1
Expansion slots	*2 x expansion slots maximum			
Power	12VDC in by 80W power adaptor 90W DC to DC converter module			
Weight (Net/ Gross)	2.3 Kg / 3.5 Kg			
Dimensions (DxWxH)	300 mm x 268 mm x 65 mm			

* Chassis is shipped with riser card with either one PCI slot or one PCIe x 16 slots. Riser card with two PCI slots available as optional item.

Dimensions

unit: mm



SBC v.s. CPU cooler Matrix

SBC	Cooler	CPU
KINO-9652	CF-479B-RS	Intel® Core™ 2 Duo Mobile 2.2GHz processor T7500

System has been tested with CPUs listed in table under 45°C as per IEC-682-3.

Ordering Information

Part No.	Description
EBC-3620P-R10	Embedded chassis for KINO series mini-ITX motherboard, two 5cm cooling fans, support one slim ODD, with one slot PCI reiser card, 80W AC-DC power adaptor, black
EBC-3620E-R10	Embedded chassis for KINO series mini-ITX motherboard, two 5cm cooling fans, support one slim ODD, with one slot PCIe reiser card, 80W AC-DC power adaptor, black
EBC-3620P2-R10	Embedded chassis for KINO series mini-ITX motherboard, two 5cm cooling fans, support one slim ODD, with two slots PCI reiser card, 80W AC-DC power adaptor, black

DC to DC Converter Output

Output Voltage	Min. Load	Max. Load
+12V	0.5A	3.0A
+5V	1.0A	6.0A
+3.3V	0.1A	6.0A
+5Vsb	0.0A	1.0A
-12V	0.0A	0.1A

IBX-700/800

Intel® Platform Book Size IPC

One Key  Recovery 

Optional built-in Wireless LAN



Gamming



Service Automation



Point of Sales



Mobile



Information Kiosk



IBX-700

IBX-800

Fanless

Mobile Dual Core

Performance Dual Core



Wireless 802.11 b/g



Watchdog Timer



RS-232 (+5V/12V)



+12V Powered USB



iSMM

IBX-700/800 IPC is the dedicated design computer for IPC industry, Point-of-Sales business, automation, and gaming, surveillance. The book size IBX-700/800 can be easily integrated with any external devices in various business applications

Features

- Offer wide range Intel® platform for different applications
- Complete I/O interface, such as PoweredUSB, Powered COM, PCI/PCIe slot for external devices connections
- CompactFlash or 2.5"/ 3.5" SATA HDD as the storage device
- LAN or wireless LAN for networking
- Front drawing design chassis make it easy for maintenance
- Industrial-grade design perfect for long hours working
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery



KIOSK

The book size IBX series IPC is easy to build inside the kiosk. The fanless IBX-700 is ideal for the closed kiosk stand with less thermal issue



Gaming/ Surveillance

PCIe 16x and PCIe 1x expansion slot for high performance graphic card and extra device



Automation

IBX series IPC with the unique front drawing-out chassis design is ideal for easy maintenance. Moreover, the optional 9-36V DC input IPC adapt to more applications such as factory, mobile car or engineer vehicles

1
Industrial
Computing
Solutions

2
Embedded
Computing
Solutions

3
Industrial Data
Collector
and Controller

4
Video
Capture
Solutions

5
I/O
Communication
Solutions

6
Panel
Solutions

7
ORing
Network
Communication

8
Power Supply/
Peripherals

Product Highlights

STEP 1



Two steps easy upgrade and maintenance

STEP 2



■ Front draw-out chassis designed for easy maintenance

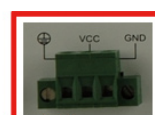
For convenient maintenance, IBX PC introduces front drawing chassis and easy-to-fasten thumb screws. Simply remove the screws on the rear and pull the front panel, it is easy for maintenance anytime anywhere.

■ 9-36V DC power supply

IBX-700 offers optional 9-36V DC input. Factories and mobile environment such as cars and engineer vehicles usually both 12V DC and 24V DC as power source. The 9-36V power input can meet more application requirements.

■ PCI/ PCIe slot allows expansion

IBX series IPC provides PCI/ PCIe slot for flexible expansion for different applications, such as video surveillance, banking security, and gaming.



IDD-9364120A

Wide Input Range: 9-36V DC
Output: Max. 120W



Model	Riser Card Part No	PCI	PCIe x1	PCIe x16	PCIe Mini Card
IBX-700	PCIR-700-R10	1	N/A	N/A	1 (for WiFi)
	PCIER-700-R10	N/A	1	N/A	1 (for WiFi)
IBX-800	PCIR-800-R10	1	N/A	N/A	1 (for WiFi)
	PCIER-800-R10	N/A	1	N/A	1 (for WiFi)

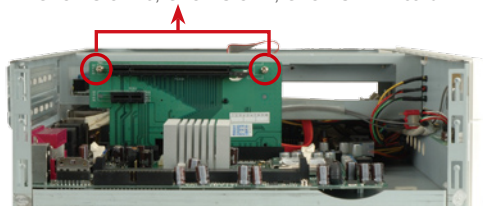


**High Speed
PCIe x16 & PCIe x1
Expansion**



Surveillance

One PCIe x16, One PCIe x1, One PCI mini card



**High performance
graphic card
expandable**



Gaming

Specifications (IBX-700/800)

Model No.	IBX-700-9103	IBX-700-9153	IBX-800-9452
SBC	POS-9103	POS-9153	POS-9452
CPU Options	Intel® ULV Celeron® M 1GHz / 512KB L2 cache Processor 373	Intel® Celeron® M 1.5GHz / 1MB L2 cache Processor 370	Intel® Core™ Duo 1.66GHz / 2MB L2 cache Processor T2300E
Chipset	Intel® 910GML+ ICH6-M	Intel® 915GM+ ICH6-M	Intel® 945GM+ ICH7-R
Memory	built-in 1GB DDR2 memory system supports 2 x 240 pin Dual channel DDR2 400/533 MHz up to 2 GB		built-in 1GB DDR2 memory system supports 2 x 240 pin Dual channel DDR2 533/667MHz up to 4 GB
Display	Integrated in Intel® 910GML+	Integrated in Intel® 915GM	Integrated in Intel® 945GM
Extension Slot	Expandable with optional riser card PCIR-700: 1 x PCI, 1 x PCIe MiniCard PCIER-700: 1 x PCIe x 1, 1 x PCIe MiniCard		Expandable with optional riser card PCIR-800: 1 x PCI, 1 x PCIe MiniCard PCIER-800: 1 x PCIe x 1, 1 x PCIe MiniCard
HDD	built-in 1 x 80GB 2.5" SATA HDD supports upto 2 x 2.5" HDD		
SSD	1 x CF Type II slot		
LAN	1 x GbE with RJ-45		
USB	2 x USB 2.0 on front panel 2 x USB 2.0 on I/O panel		
COM	2 x RS-232 (COM5/ COM6)		
Powered COM	5V or 12V output from pin 9, with LED voltage indicator (COM1-COM4)		
LPT	1 x DB-25		
Powered USB	1 x 12V Powered USB		
Cash Drawer Port (Digital I/O)	2 x RJ-12, 1DI/ 1DO with 12VDC output		
Wireless	Expandable by BTO order with MOQ 802.11b/g with PIFA antenna, PCIe interface		
KB/MS	1/1 PS2		
Audio	1 x Line-out, 1 x Mic in		
ODD	1 x slim DVD Combo CD-RW 24x, DVD-ROM 8 x		
Operation Temperature	0°C ~ 45°C		
Power Input	12V DC in with 63000-FSP0841ADC11118-RS 84W power adapter 9-36VDC in by IDD-9364120A DC-to-DC module		90V~264V AC in, with ACE-A615A 150W ATX power supply
Dimensions (WxDxH)	309 mm x 300 mm x 75 mm		309 mm x 330 mm x 85 mm
Net Weight	3.6 kgs		4.3 kgs
EMC/ Safety	CE, FCC class B, UL, CCC		CE, FCC class B, UL, CCC

• Ordering Information

Model	Power	Chipset	Wireless	Expansion Slot	Part No. (With DVD)	Part No. (Without DVD)
IBX-700	90-264V AC	910GML+	N/A	N/A	IBX-700D-9103-R10-WBOOC/CM373/1GB	IBX-700D-9103-R10-WBOOC/CM373/1GB
			802.11b/g	PCI	IBX-700D-9103-R10-WBIGC/CM373/1GB	IBX-700D-9103-R10-WBIGC/CM373/1GB
			802.11b/g	PCIe x1	IBX-700D-9103-R10-WBEGC/CM373/1GB	IBX-700D-9103-R10-WBEGC/CM373/1GB
		915GM	N/A	N/A	IBX-700D-9153-R10-WSOOC/CM370/1GB	IBX-700D-9153-R10-WSOOC/CM370/1GB
			802.11b/g	PCI	IBX-700D-9153-R10-WSIGC/CM370/1GB	IBX-700D-9153-R10-WSIGC/CM370/1GB
			802.11b/g	PCIe x1	IBX-700D-9153-R10-WSEGC/CM370/1GB	IBX-700D-9153-R10-WSEGC/CM370/1GB
	9-36V DC	910GML+	N/A	N/A	IBX-700M-9103-R10-WBOOC/CM373/1GB	IBX-700M-9103-R10-WBOOC/CM373/1GB
			802.11b/g	PCI	IBX-700M-9103-R10-WBIGC/CM373/1GB	IBX-700M-9103-R10-WBIGC/CM373/1GB
			802.11b/g	PCIe x1	IBX-700M-9103-R10-WBEGC/CM373/1GB	IBX-700M-9103-R10-WBEGC/CM373/1GB
		915GM	N/A	N/A	IBX-700M-9153-R10-WSOOC/CM370/1GB	IBX-700M-9153-R10-WSOOC/CM370/1GB
			802.11b/g	PCI	IBX-700M-9153-R10-WSIGC/CM370/1GB	IBX-700M-9153-R10-WSIGC/CM370/1GB
			802.11b/g	PCIe x1	IBX-700M-9153-R10-WSEGC/CM370/1GB	IBX-700M-9153-R10-WSEGC/CM370/1GB
IBX-800	90-264V AC	945GM	N/A	N/A	IBX-800A-9452-R10-WSOOC/T2300E/1GB	IBX-800A-9452-R10-WSOOC/T2300E/1GB
			802.11b/g	PCI	IBX-800A-9452-R10-WSIGC/T2300E/1GB	IBX-800A-9452-R10-WSIGC/T2300E/1GB
			802.11b/g	PCIe x1	IBX-800A-9452-R10-WSEGC/T2300E/1GB	IBX-800A-9452-R10-WSEGC/T2300E/1GB

• Packing List

1 x IBX POS PC	1 x Screw set
1 x Power adapter (for IBX-700 only)	1 x CF Card Slot Cover
1 x Power cord	1 x Utility CD
1 x DVD-ROM SATA cable	4 x Foot pad

• Options

	Part No.	Description
IBX-700	IBXCF-P9103-XPE	Windows® XP Embedded OS image for IBX-700-9103, with 1GB CF card
	IBXCF-P9103-WEPOS	Windows® WEPOS OS image for IBX-700-9103, with 1GB CF card
	IBXCF-P9153-XPE	Windows® XP Embedded OS image for IBX-700-9153, with 1GB CF card
	IBXCF-P9153-WEPOS	Windows® WEPOS OS image for IBX-700-9153, with 1GB CF card
	PCIR-700-R10	Riser card for IBX-700 with one PCI and one PCIe mini card slot
IBX-800	PCIER-700-R10	Riser card for IBX-700 with one PCIe x1 slot and one PCIe mini card slot
	IBXCF-P9452-XPE	Windows® XP Embedded OS image for IBX-800-9452, with 1GB CF card
	IBXCF-P9452-WEPOS	Windows® WEPOS OS image for IBX-800-9452, with 1GB CF card
	PCIR-800-R10	Riser card for IBX-800 with one PCI slot and one PCIe mini card slot
	PCIER-800-R10	Riser card for IBX-800 with one PCIe x1 slot and one PCIe mini card slot

• Naming Rule

IBX-700 M 9103 R10 WBOOC CM373 1GB 80G
A B C D E F G H

- A: Design Code
700, 800
- B: Power input
A ~ AC in, D ~ 12VDC in, M ~ 9-36VDC in
- C: SBC code
- D: Revision number
- E: Configuration code
1st letter - color
W ~ white
2nd letter - CPU mounting
S ~ socket, B ~ CPU onboard
3rd letter - riser card type
O ~ without riser, I ~ PCI riser, E ~ PCIe riser
4th letter - wireless mode
O ~ without wireless, N ~ 802.11b/g/n wireless,
G ~ 802.11b/g wireless
5th letter - ODD type
O ~ without ODD, C ~ DVD combo, D ~ DVD RW
- F: CPU code
- G: Memory capacity
- H: Hard drive capacity