

Display Product Series



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Features

- 5.7" TFT LCD with resistive touchscreen
- DM&P Vortex86DX 1GHz onboard
- 256/512MB DDR2 system memory onboard
- Compact Flash Type I/II / Micro SD Slot
- Mini-PCI socket (Wi-Fi Optional)
- Fanless and low power consumption
- Metal chassis with compact design

Introduction

PDX-057T is an ultra compact platform for the present demanding embedded and productive applications. It has new Vortex86DX SoC CPU which consumes only minimum power requirement when running at 1GHz, and DDR2 memory provides faster data transfer rate. By using 5.7" TFT LCD, PDX-057T becomes the perfect choice for a limited budget. In addition, the integrated 10/100M Ethernet port supplies the communication capability which makes PDX-057T can be more widely used when running with DOS, Linux, Windows CE, and Windows XP environment to become the perfect solution for system integration.

Specifications

CPU	DM&P SoC CPU Vortex86DX-1GHz
Cache	L1:16KB I-Cache, 16KB D-Cache L2: 128KB Cache
BIOS	AMI BIOS
Memory	256/512MB DDR2 onboard
Watchdog Timer	Software programmable from 30.5u to 512 seconds x 2 sets
LAN	Integrated 10/100Mbps Ethernet
Audio (Optional)	CM119 Line-Out
Internal Drives	Compact Flash Type I/II slot Micro SD slot
I/O	RS-232/422/485 x 1 USB ports (Ver2.0) x 2
Expansion Slot	Mini-PCI socket x 1

Mechanical & Environment

Power Requirement	+5V DC +8 ~ +35V DC (Optional)
Power Consumption	+5V @ 1.3A
Operating Temperature	-20 ~ +60 °C (-4 ~ +140 °F)
Storage Temperature	-30 ~ +70 °C (-22 ~ +158 °F)
Dimensions	152 x 112 x 33 mm (5.98 x 4.41 x 1.3 inches)
Weight	374g
Certification	CE, FCC, VCCI, Vibration

LCD Specifications

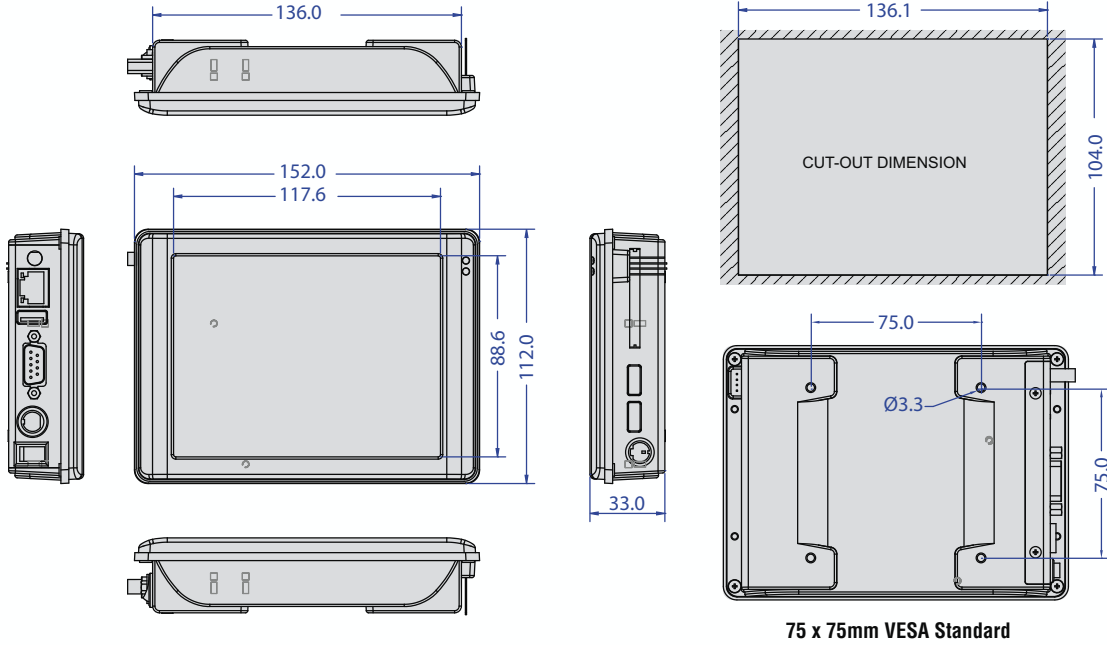
Display Type	5.7" TFT LCD
Backlight Unit	LED
Display Resolution	640 (W) x 480 (H)
Brightness (cd/m²)	500 cd/m ²
Contrast Ratio	300:1
Display Color	262,144
Dot Pitch (mm)	0.06 x 0.18
Viewing Angle	Vertical 100°, Horizontal 140°
Backlight Lifetime	25,000 hrs

Touchscreen

Type	Analog Resistive
Resolution	Continuous
Transmittance	80%
Controller	USB interface
Software Driver	DOS/Linux/WinCE/WinXP
Durability	1 million

Dimensions

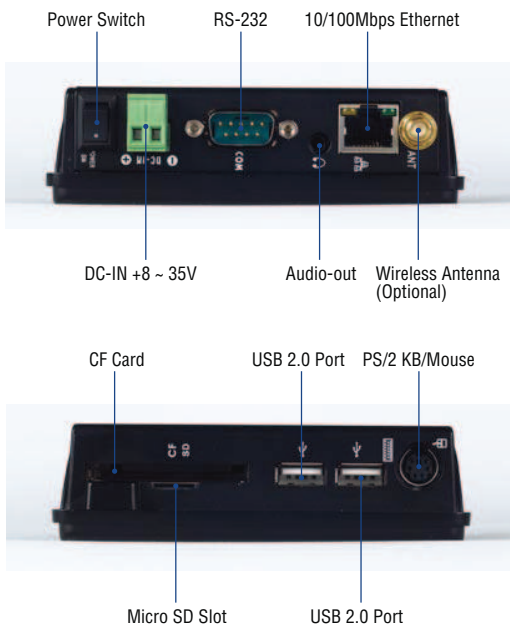
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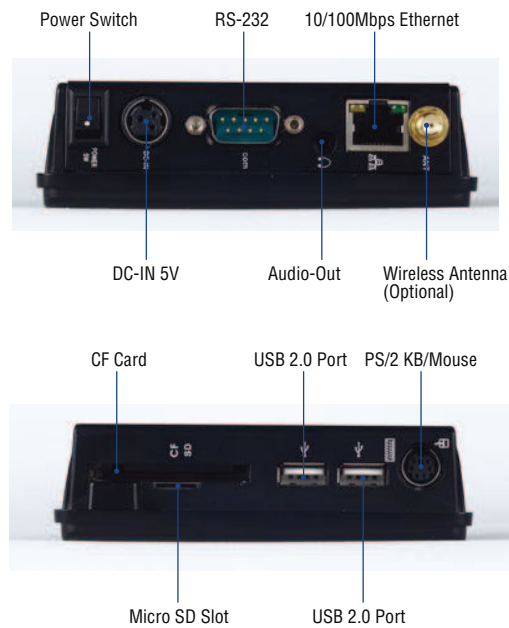
- 1 μ Processor Module
- 2 Mity/Tiny CPU Module
- 3 PC/104 CPU Module
- 4 Half-Size CPU Module
- 5 3.5" CPU Module
- 6 Peripheral Module
- 7 Display Product Series
- 8 Accessories & Technical Information

Side View

PDX-057T-8A



PDX-057T-5A



Ordering Information

- **PDX-057T-5A** 5.7" Vortex86DX Panel PC w/256MB DDR2 /2USB/Line-Out/LAN/1COM/CF/MicroSD/15W Power Adapter
- **PDX-057T-8A** 5.7" Vortex86DX Panel PC w/256MB DDR2 /2USB/Line-Out/LAN/1COM/CF/MicroSD



Features

- 8.9" TFT LCD with resistive touchscreen
- DM&P Vortex86DX 1GHz onboard
- 512MB DDR2 system memory onboard
- Compact Flash Type I/II / Micro SD Slot
- Mini-PCI socket (Wi-Fi Optional)
- Fanless and low power consumption
- Metal chassis with compact design

Introduction

PDX-089T is an ultra compact platform for the present demanding embedded and productive applications. It has new Vortex86DX SoC CPU which consumes only minimum power requirement when running at 1GHz, and DDR2 memory provides faster data transfer rate. By using 8.9" TFT LCD, PDX-089T becomes the perfect choice for a limited budget. In addition, the integrated 10/100M Ethernet port supplies the communication capability which makes PDX-089T can be more widely used when running with DOS, Linux, Windows CE, and Windows XP environment to become the perfect solution for system integration.

Specifications

CPU	DM&P SoC CPU Vortex86DX-1GHz
Cache	L1:16KB I-Cache, 16KB D-Cache L2: 128KB Cache
BIOS	AMI BIOS
Memory	512MB DDR2 onboard
Watchdog Timer	Software programmable from 30.5u to 512 seconds x 2 sets
LAN	Integrated 10/100Mbps Ethernet
Audio (Optional)	CM119 Line-Out
Internal Drives	Compact Flash Type I/II slot Micro SD slot
I/O	RS-232/422/485 x 1 USB ports (Ver2.0) x 2
Expansion Slot	Mini-PCI socket x 1

Mechanical & Environment

Power Requirement	+5V DC +8 ~ +35V DC(Optional)
Power Consumption	+5V @ 1.3A
Operating Temperature	0 ~ +60 °C (+32 ~ +140 °F)
Storage Temperature	-20 ~ +70 °C (-4 ~ +158 °F)
Dimensions	236.6 x 146 x 35 mm (9.31 x 5.75 x 1.38 inches)
Weight	468g
Certification	CE, FCC, VCCI, Vibration, IP65 (Front Panel)

LCD Specifications

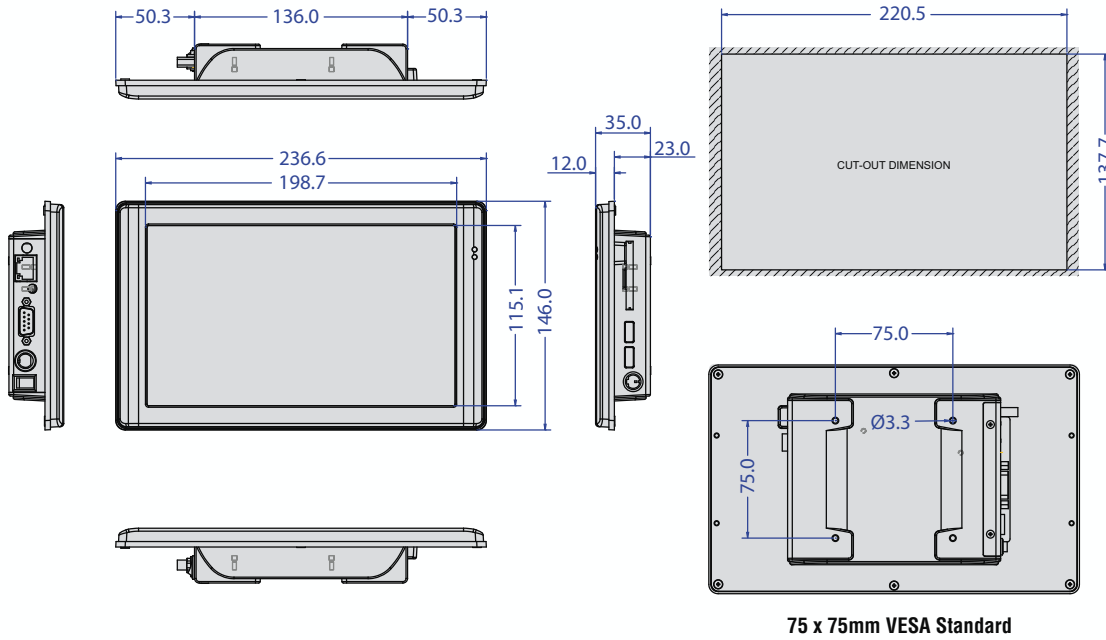
Display Type	8.9" TFT LCD
Backlight Unit	LED
Display Resolution	1024 (W) x 600 (H)
Brightness (cd/m²)	220 cd/m ²
Contrast Ratio	500 : 1
Display Color	262,144
Dot Pitch (mm)	0.06 x 0.18
Viewing Angle	Vertical 110°, Horizontal 140°
Backlight Lifetime	25,000 hrs

Touchscreen

Type	Analog Resistive
Resolution	Continuous
Transmittance	80%
Controller	USB interface
Software Driver	DOS/Linux/WinCE/WinXP
Durability	1 million

Dimensions

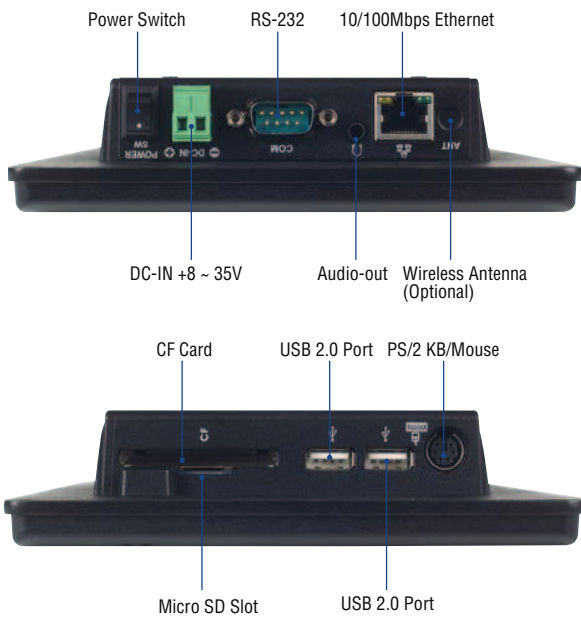
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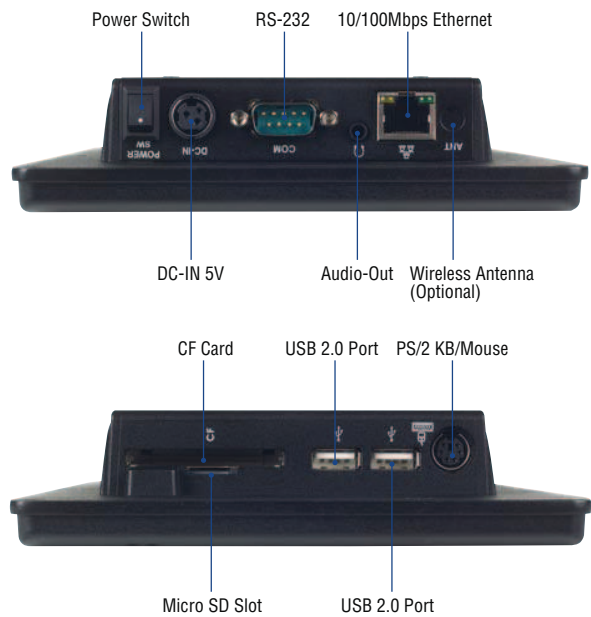
75 x 75mm VESA Standard

Side View

PDX-089T-8A-512



PDX-089T-5A-512



Ordering Information

- **PDX-089T-5A-512** 8.9" Vortex86DX Panel PC w/512MB DDR2/2USB/Line-Out/LAN/1COM/CF/MicroSD/15W Power Adapter
- **PDX-089T-8A-512** 8.9" Vortex86DX Panel PC w/512MB DDR2/2USB/Line-Out/LAN/1COM/CF/MicroSD

- 1 µProcessor Module
- 2 Mity/Tiny CPU Module
- 3 PC/104 CPU Module
- 4 Half-Size CPU Module
- 5 3.5" CPU Module
- 6 Peripheral Module
- 7 Display Product Series
- 8 Accessories & Technical Information

LCD Display




Model name	LCD-5.7"-6448TFT-5T1	LCD-6.4"LG	LCD-AU-084SN03
Size	5.7"	6.4"	8.4"
LCD Brand	AMPRIE	LG	AU
Resolution (Pixel)	640 x 480 VGA	640 x 480 VGA	800 x 600 SVGA
Number of colours	262, 144	262, 144	262, 144
Viewing angle (L/R/U/D)	70/70/50/50	45/45/15/35	70/70/65/50
Brightness (nit)	500	250	220
Contrast Ratio	300:1	300 : 1	600 : 1
Response Time (ms)	50	45	30
Signal Interface	18bit TTL	18bit TTL	18/24 bits LVDS
Supply Voltage (V)	3.3V/5V	3.3V	3.3V
LCD Power Consumption (W)	2W	2.6W	3.3W
Lamp life (hrs.)	25,000	20,000	30,000
Operation Temp	-20°C ~ +70°C	0°C ~ +50°C	-30°C ~ +85°C

Ordering information	Item Number	Description
5.7" LCD Set	LCD-5.7"-6448TFT-5T1	TFT640 x 480 500 Nits with Touchscreen
	CABLE-URT-5.7"-VX86	LCD Cable for VSX/VDX series
	T/S-CONTROLLER-USB-4	TouchScreen Controller-4 wires-USB
	CABLE-T/S-1.25MM-9CM	Touchscreen cable for 5.7"
6.4" LG Set	LCD-6.4"-LG	LG LB064V02, 6.4" 640 x 480 LCD
	INVERTER-WICCFL1	Backlight inverter for LG 6.4" LCD
	LCD-CABLE-LG6.4-15CM	LCD Cable for VSX/VDX series
	T/S-CONTROLLER-USB-4	TouchScreen Controller-4 wires-USB
8.4" AU Set	LCD-LCD-AU-084SN03V1	AU G084SN03, 8.4" 800 x 600 LCD
	INVERTER-QF38V6.75	Backlight inverter for AU 8.4" LCD
	CABLE-LVDS-30	LVDS Cable for ICOP-0096/ICOP-0078
	ICOP-0096	LVDS to 18- bit TFT converter for VSX/VDX Series
	T/S-CONTROLLER-USB-4	TouchScreen Controller-4 wires-USB
	LCD-AU084-TOUCHSCREE	8.4" LCD TOUCHSCREEN



Model name	LCD-AU-10.4"-N2-PAN EL	LCD-AU-12.1"-PANEL	LCD-AU-15"-PANEL
Size	10.4"	12.1"	15"
LCD Brand	AU	AU	AU
Resolution (Pixel)	800 x 600 SVGA	800 x 600 SVGA	1024 x 768 XVGA
Number of colours	262, 144	262, 144	262, 144
Viewing angle (L/R/U/D)	60/60/45/55	70/70/45/55	80/80/70/60
Brightness (nit)	400	400	350
Contrast Ratio	500 : 1	600 : 1	700 : 1
Response Time (ms)	30	35	8
Signal Interface	18/24 bits LVDS	18/24 bits LVDS	18/24 bits LVDS
Supply Voltage (V)	3.3V	3.3V	3.3V
LCD Power Consumption (W)	6.5W	7.4W	8.9W
Lamp life (hrs.)	50,000	50,000	50,000
Operation Temp	-30°C ~ +85°C	-30°C ~ +85°C	0°C ~ +65°C

Ordering information	Item Number	Description
10.4" AU Set	LCD-AU-10.4"-N2-PANEL INVERTER-QF63V2 CABLE-LVDS-30 ICOP-0096 T/S-CONTROLLER-USB-4 LCD-AU104-TOUCHSCREEN	AU G104SN02, 10.4" 800 x 600 LCD Backlight inverter for AU 10.4"LCD LVDS Cable for ICOP-0096/ICOP-0078 LVDS to 18- bit TFT converter for VSX/VDX Series TouchScreen Controller-4 wires-USB 10.4" LCD TOUCHSCREEN
12.1" AU Set	LCD-AU-12.1"-PANEL INVERTER-QF61V4.50 CABLE-LVDS-AU121-30 ICOP-0096 T/S-CONTROLLER-USB-4 LCD-AU121-TOUCHSCREEN	AU G121SN01, 12.1" 800 x 600 LCD Backlight inverter for AU 12.1"LCD LVDS Cable for ICOP-0096/ICOP-0078 LVDS to 18- bit TFT converter for VSX/VDX Series TouchScreen Controller-4 wires-USB 12.1" LCD TOUCHSCREEN
15" AU Set	LCD-AU-15"-PANEL INVERTER-QF117V1.14 CABLE-LVDS-AU15-30 ICOP-0096 T/S-CONTROLLER-USB-4 LCD-AU15-TOUCHSCREEN	AU G150XG01 15" 1024 x 768 LCD Backlight inverter for AU 15"LCD LVDS Cable for ICOP-0096/ICOP-0078 LVDS to 18- bit TFT converter for VSX/VDX Series TouchScreen Controller-4 wires-USB 15" LCD TOUCHSCREEN
ICOP-0096/ CABLE-LVDS	LVDS to 18- bit TFT converter For Vortex86SX/Vortex86DX 	ICOP-0096 is the one channel LVDS Module, designing especially for Vortex86SX/Vortex86DX series which converts the 18-bit TFT signal. Chip:T1 SN75LVDS84 Connector: 2.0mm 16 -pin box connector x 1 (TFT) 2.0mm 44-pin box header x1 (LVDS) Size: 44 x 21mm (1.73 x 0.82 inches) Weight:3g

1

µProcessor
Module

2

Mity/Tiny CPU
Module

3

PC/104 CPU
Module

4

Half-Size CPU
Module

5

3.5" CPU
Module

6

Peripheral
Module

7

Display Product
Series

8

Accessories &
Technical Information

Open Frame Panel PC

VOX-064

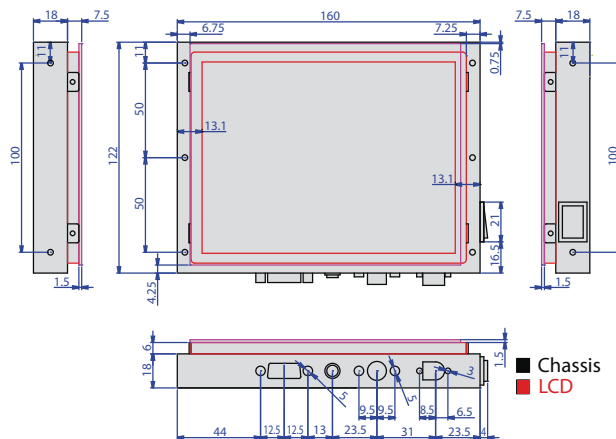
6.4" Open Frame Panel PC with Embedded Board



Features

- 6.4" TFT LCD (LG LB064V02)
- VDX-6354 PC/104 CPU Module
- 256MB SDRAM Onboard
- Metal chassis
- AC/DC Power Adapter

Dimensions



Unit: mm

Ordering Information

VOX-064 6.4" Thin Frame Panel PC w/VDX-6354 and Power adapter

Assembly P/N	Description
VOX-LG-064	LG6.4" Metal chassis and accessory cables
LCD-LG064-SET	LCD set w/LG6.4" and Backlight Inverter
VDX-6354	Vortex86DX PC/104 CPU Module with 256MB DDR2
LCD-CABLE-LG6.4-15CM	LCD CABLE for VSX/VDX Series
POWER-15W-US (EU)	15W Power Adapter

Open Frame Panel PC

VOX-084-TS

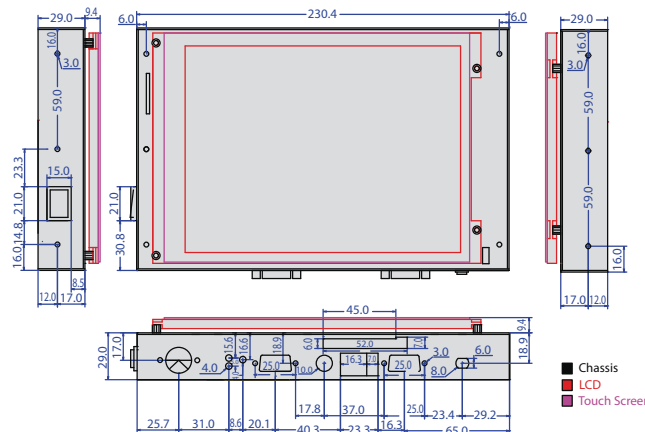
8.4" Open Frame Panel PC with Embedded Board and Touch Screen



Features

- 8.4" TFT LCD (AUO G084SN03)
- VDX-6328 3.5" CPU Module
- 256MB DDR2 Onboard
- 4-Wire Resistive Touch Screen
- Metal chassis
- AC/DC Power Adapter

Dimensions



Ordering Information

VOX-084-TS 8.4" Thin Frame Panel PC w/VDX-6328, USB Touch Screen, and Power adapter

Assembly P/N	Description
VOX-AU084-CF	AU8.4" Metal chassis and accessory cables
LCD-AU084-U-SET	LCD set w/AU8.4", Backlight Inverter, LVDS Cable and USB Touch Screen
VDX-6328	Vortex86DX 3.5" CPU Module with 256MB DDR2
PS-047A-3Y	47W Power Adapter

VOX-084 8.4" Thin Frame Panel PC w/VDX-6328 and Power adapter

Assembly P/N	Description
VOX-AU084-CF	AU8.4" Metal chassis and accessory cables
LCD-AU84-SET	LCD set w/AU8.4", Backlight Inverter, and LVDS Cable
VDX-6328	Vortex86DX 3.5" CPU Module with 256MB DDR2
PS-047A-3Y	47W Power Adapter

1

µProcessor Module

2

Mity/Tiny CPU Module

3

PC/104 CPU Module

4

Half-Size CPU Module

5

3.5" CPU Module

6

Peripheral Module

7

Display Product Series

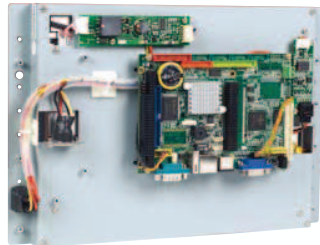
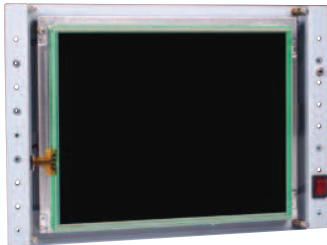
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Accessories & Technical Information

Open Frame Panel PC

VOX-104-TS

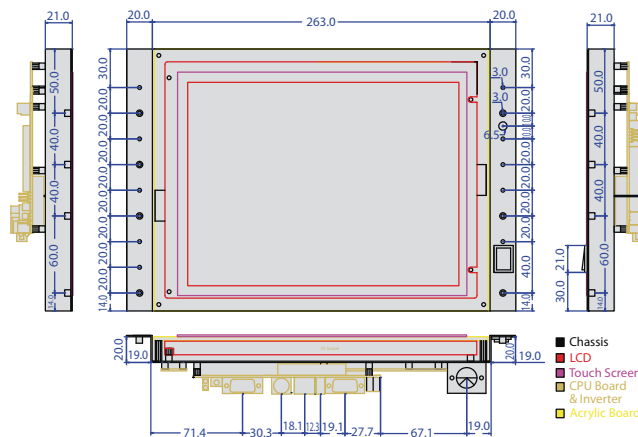
10.4" Open Frame Panel PC with Embedded Board and Touch Screen



Features

- 10.4" TFT LCD (AUO G104SN02)
- VDX-6328 3.5" CPU Module
- 256MB DDR2 Onboard
- 4-Wire Resistive Touch Screen
- Metal chassis
- AC/DC Power Adapter

Dimensions



Ordering Information

VOX-104-TS 10.4" Thin Frame Panel PC w/VDX-6328, USB Touch Screen, and Power adapter

Assembly P/N	Description
VOX-AU104-2	AU10.4" Metal chassis and accessory cables
LCD-AU104-N2-U-SET	LCD set w/AU10.4", Backlight Inverter, LVDS Cable and USB Touch Screen
VDX-6328	Vortex86DX 3.5" CPU Module with 256MB DDR2
PS-047A-3Y	47W Power Adapter

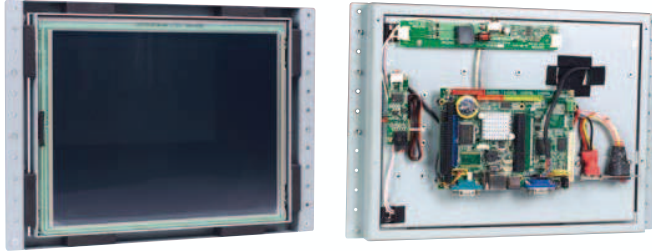
VOX-104 10.4" Thin Frame Panel PC w/VDX-6328 and Power adapter

Assembly P/N	Description
VOX-AU104-2	AU10.4" Metal chassis and accessory cables
LCD-AU104-N2-SET	LCD set w/AU10.4", Backlight Inverter, and LVDS Cable
VDX-6328	Vortex86DX 3.5" CPU Module with 256MB DDR2
PS-047A-3Y	47W Power Adapter

Open Frame Panel PC

VOX-121-TS

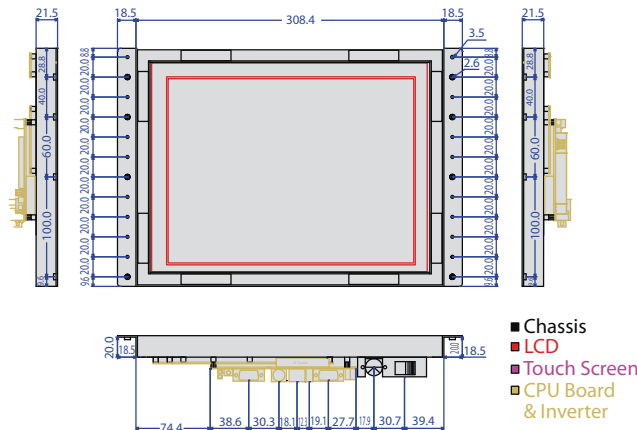
12.1" Open Frame Panel PC with Embedded Board and Touch Screen



Features

- 12.1" TFT LCD (AUO G121SN01)
- VDX-6328 3.5" CPU Module
- 256MB DDR2 Onboard
- 4-Wire Resistive Touch Screen
- Metal chassis
- AC/DC Power Adapter

Dimensions



Unit: mm

Ordering Information

VOX-121-TS 12.1" Thin Frame Panel PC w/VDX-6328, USB Touch Screen, and Power adapter

Assembly P/N	Description
VOX-AU121	AU12.1" Metal chassis and accessory cables
LCD-AU121-U-SET	LCD set w/AU12.1", Backlight Inverter, LVDS Cable and USB Touch Screen
VDX-6328	Vortex86DX 3.5" CPU Moduel with 256MB DDR2
PS-047A-3Y	47W Power Adapter

VOX-121 12.1" Thin Frame Panel PC w/VDX-6328 and Power adapter

Assembly P/N	Description
VOX-AU121	AU12.1" Metal chassis and accessory cables
LCD-AU121-SET	LCD set w/AU12.1", Backlight Inverter, and LVDS Cable
VDX-6328	Vortex86DX 3.5" CPU Moduel with 256MB DDR2
PS-047A-3Y	47W Power Adapter

1

µProcessor Module

2

Mity/Tiny CPU Module

3

PC/104 CPU Module

4

Half-Size CPU Module

5

3.5" CPU Module

6

Peripheral Module

7

Display Product Series

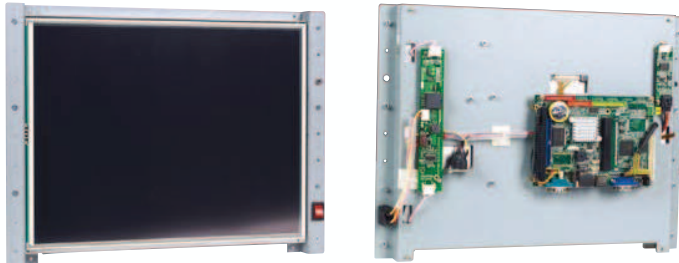
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Accessories & Technical Information

Open Frame Panel PC

VOX-150-TS

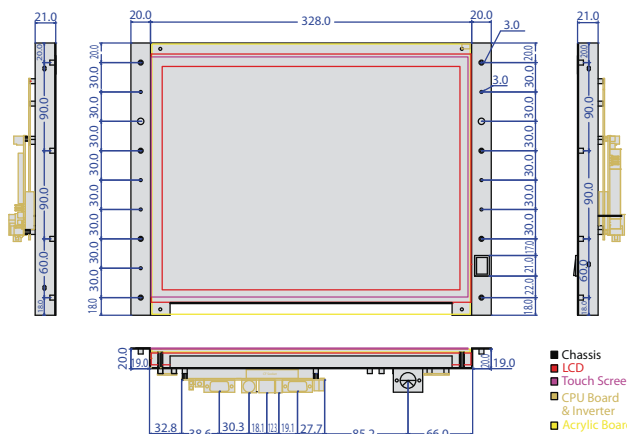
15" Open Frame Panel PC with Embedded Board and Touch Screen



Features

- 15" TFT LCD (AUO G150XG01)
- VDX-6328 3.5" CPU Module
- 256MB DDR2 Onboard
- 4-Wire Resistive Touch Screen
- Metal chassis
- AC/DC Power Adapter

Dimensions



Unit: mm

Ordering Information

VOX-150-TS 15" Thin Frame Panel PC w/VDX-6328, USB Touch Screen, and Power adapter

Assembly P/N	Description
VOX-AU15	AU15" Metal chassis and accessory cables
LCD-AU15"-U-SET	LCD set w/AU15", Backlight Inverter, LVDS Cable and USB Touch Screen
VDX-6328	Vortex86DX 3.5" CPU Module with 256MB DDR2
PS-047A-3Y	47W Power Adapter

VOX-150 15" Thin Frame Panel PC w/VDX-6328 and Power adapter

Assembly P/N	Description
VOX-AU15	AU15" Metal chassis and accessory cables
LCD-AU15"-SET	LCD set w/AU15", Backlight Inverter, and LVDS Cable
VDX-6328	Vortex86DX 3.5" CPU Module with 256MB DDR2
PS-047A-3Y	47W Power Adapter