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CS-112H/P1001 Series



Overview

12.1" TFT-LCD Sunlight Readable Touch Panel PC with Intel[®] Atom[™] E3845 Quad Core Processor

- 12.1" TFT-LCD with Ultra High Brightness up to 1,500 nits and 1024 x 768 (XGA) Resolution
- Onboard Intel® Atom[™] E3845 Processor Quad Core, 1.91GHz
- Supports 1x DDR3L SO-DIMM Socket, up to 8 GB
- 1x 2.5" SATA Drive Bay, 1x CFast Card and 1x SIM Card Socket
- 2x GbE LAN, 4x USB, 2x COM, 1x VGA, 1x DisplayPort, 4x DI/4x DO
- 1x Mini-PCIe Expansion Socket for Wireless and I/O Expansion
- Wide Range Operating Temperature -20°C to 70°C
- Designed with Aluminum Die-casting Front Frame
- True Flat IP65 Front Panel Protection
- Supports Panel / VESA / Rack Mounting
- Convertible Display System (CDS) Technology Supported
- 2x Universal I/O Bracket (For P1001E only)

CS-112H/P1001 Series is a 12.1" TFT-LCD sunlight readable touch panel PC offering 1,500 nits ultra high brightness and 1024 x 768 (XGA) resolution. The system is equipped with Intel® Atom® E3845 processor and provides extensive I/O including 2x GbE, 4x USB, 2x RS232/422/485, 4x DI/4x DO, 1x VGA and 1x DisplayPort. It also supports 1x Mini-PCIe, 1x SIM socket, and 2x Universal I/O Bracket(For P1001E only) for a variety of wireless connections, such as BT/WiFi and 3G/LTE. In addition, there are 2 types of storage devices including 2.5" SATA HDD and CFast. The accessible design of these storage devices allows quick data access and easy maintenance.

CS-112H/P1001 Series supports Convertible Display System (CDS) technology. Comparing to regular standalone panel PCs, it can lower maintenance cost and reduce unplanned downtime. Furthermore, CS-112H/P1001 Series is a truly rugged display system supporting wide range operating temperature (-20°C to 70°C), IP65 dust/water proof front panel, wide range DC power input (9 to 48VDC) and rigorous industrial protections.

Highlights



Sunlight Readable

Providing ultra high brightness 1,500 nits and resolution up to 1024 x 768 (XGA), CS-112/P1000 Series is suitable for all lighting conditions including direct sunlight.



Wide Temperature

CS-112/P1000 Series supports wide range operating temperature from -20°C to 70°C and is suitable for deploying in extreme and harsh environments.



Multiple Functions CS-112/P1000 Series provides extensive I/O, Mini-PCIe slot, 2.5" SATA drive bay, CFast socket, and SIM card slot.

CS-112H Specifications

Model Name	CS-112HC	
Display		
LCD Size	• 12.1" (4:3)	
Max. Resolution	• 1024 x 768	
Brightness (cd/m2)	• 1500	
Contrast Ratio	• 700 : 1	
LCD Color	• 16.2M	
Pixel Pitch (mm)	• 0.24 (H) × 0.24 (V)	
Viewing Angle (H-V)	• 160 / 160	
Backlight MTBF	• 30,000 hrs (LED Backlight)	
Touch Screen		
Touch Type	Projected Capacitive	
Physical		
Dimension (W x D x H)	• 345 x 265.3 x 57 mm	
Weight Information	• 3.16 kg	
Mechanical Construction	Flat Rugged Aluminum Die-casting Bezel	
Environment		
Front Panel Protection	• IP 65 Compliant	
Operating Temperature	Ambient with Air flow: -20°C to 70°C (extended temperature peripherals)	
Storage Temperature	• -20°C to 70°C	
Relative Humidity	• 80% RH @ 40°C (non-Condensing)	
EMC	• CE, UKCA, FCC, ICES-003 Class A	

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P1001 Specifications

Model Name	P1001	P1001E		
System				
Processor	Onboard Intel [®] Atom [™] Processor E3845 Quad Core, 1.91 GHz			
Memory	1x DDR3L 1066/1333 MHz SO-DIMM Socket (un-buffered and non-ECC) Support up to 8 GB			
BIOS	AMI 64Mbit SPI BIOS			
Graphics	1			
VGA	• 1x VGA Connector (1920x1080@60Hz)			
DP	• 1x DisplayPort Connector (1920x1080@60Hz)			
Audio	1			
Line-out	• 1x Line-out, Phone Jack 3.5mm			
Mic-in	• 1x Mic-in, Phone Jack 3.5mm			
I/O	1/0			
LAN	 2x GbE LAN (Supports WoL, Teaming, Jumbo Frame & PXE), RJ4 GbE1: Intel® I219-LM GbE2: Intel® I210 	15		
USB	• 1x USB 3.2 Gen1 (Type A), 3x USB 2.0 (Type A)			
СОМ	2x DB9 for COM1~2, Support RS232/422/485 with Auto Flow Control			
DIO	• 8x Digital I/O (4in/4out)			
Power Mode Switch	• 1x AT/ATX Mode Switch			
Power Switch	• 1x Power Switch			
Reset Button	1x Reset Button			
Storage				
SSD/HDD	• 1x 2.5"SATA HDD Bay			
CFast	1x External CFast Socket			
SIM Card	1x External SIM Card Socket			
Expansion				
Mini PCI Express	• 1x Full-size Mini PCIe Socket for Wi-Fi/GSM/Expansion Module			
I/O Brackets		• 2x Universal I/O Brackets		
Other Function				
Watchdog Timer	Software Programmable Supports 256 Levels System Reset			
Internal Speaker	AMP 2W + 2W (Internal Speaker)			
OSD Function	LCD On/Off, Brightness Up, Brightness Down			
Power				
AT/ATX Power	Support AT, ATX Mode			
Power Input	• 1x 3-pin Terminal Block Connector with Power Input 9~48VDC			
Power Adapter (Optional)	1x Optional AC/DC 12V/5A, 60W Power Adapter			

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Physical				
Dimension (W x D x H)	• 204.5 x 149 x 37.5 mm	• 204.5 x 150 x 60 mm		
Weight Information	• 1.34kg	• 1.54kg		
Mechanical Construction	Extruded Aluminum with Heavy Duty Metal			
Mounting	Wall / VESA / CDS Mounting			
Reliability & Protection	Reliability & Protection			
Reverse Power Input	• Yes			
Over Voltage Protection	 Protection Range: 51~58V Protection Type: shut down operating voltage, re-power on at the present level to recover 			
Over Current Protection	• 20A			
ESD Protection	• +/-8kV (air), +/-4kV (contact)			
Surge Protection	• 2kV			
Operating System				
Microsoft® Windows® • Windows® 10, Windows® 8, Windows® 7 • Windows® Embedded 8 Standard, Windows® Embedded Standard 7				
Linux	Supports by project			
Environment				
Operating Temperature	Ambient with Air Flow: -20°C to 70°C (with Industrial Grade Peripherals)			
Storage Temperature	• -30°C to 85°C			
Relative humidity	• 10%~95% (non-condensing)			
Shock	Operating, 15 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)			
Vibration	Operating, 1 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)			
EMC	• CE, UKCA, FCC, ICES-003 Class A			

CS-112H/P1001 External Layout

Front I/O

Left I/O







Right I/O





CS-112H/P1001E External Layout

Front I/O







Left I/O



Right I/O



CS-112H/P1001 Dimensions



















Ordering Information

Available Models

Model No.	Description
CS-112HC-R11/P1001-R10	12.1" TFT-LCD 1500 nits Sunlight Readable Touch Panel PC with Intel® Atom™ E3845 Quad Core Processor and P-Cap. Touch
CS-112HC-R11/P1001E-R10	12.1" TFT-LCD 1500 nits Sunlight Readable Touch Panel PC with Intel® Atom™ E3845 Quad Core Processor, P-Cap. Touch and 2x Universal I/O Bracket

Model Configuration

	CS-112HC	P1001	P1001E
CS-112HC/P1001	V	V	
CS-112HC/P1001E	V		V

V : Compatible

Package Checklist

CS-112H/P1001 Series Panel PC x 1	Power Terminal Block Connector (Female) x 1
Panel Mounting Kit x 1	HDD Screw Pack x 1
DIO Terminal Block Connector (Female) x 1	Mini PCIe Screw Pack x 1

Optional Modules and Accessories

Model No.	Description
MEC-COM-M212-DB9	Mini-PCIe Module with 2x COM Ports, 1x Standard DB9 Cable (For P1001E only)
MEC-LAN-M102-30	Mini-PCIe Module with 2x LAN Ports, 2x 30cm cable (For P1001E only)
MEC-USB-M102-30	Mini-PCIe Module with 2x USB 3.2 Gen1 Ports, 1x 30cm cable (For P1001E only)
UB0303	2x Universal Bracket each with 1x DB9 Cutout (For P1001E only)
UB0311	1x Universal Bracket with 2x RJ45 Cutout (For P1001E only)
UB0314	1x Universal Bracket with 2x USB Cutout (For P1001E only)
URM01	Universal 19" Rack Mount Kit for Industrial Panel PC & Industrial Monitor
GST60A12-CIN1	Adapter AC/DC 12V 5A 60W, GST60A12-CIN1, wide temp (-30°C ~ +70°C)
SL2-SL3	US 2 heads power cord, US B type to IEC C13, SVT 18AWG/3C Black 1.8M SL-2+SL-3
SL6-SL3	EU 2 heads power cord, EU G type to IEC C13, H05VV-F 0.75mm2/3G Black 1.8M SL-6+SL-3
QP026-SL3	UK 2 heads power cord, UK I type to IEC C13, H05VV-F 0.75mm2/3G Black 1.8M QP026+SL-3

Optional Module Configuration (For P1001E only)



Model No.	Description	1	2
MEC-COM-M212-DB9/UB0303	Mini-PCIe Module with 2x COM Ports, 1x Standard DB9 Cable, 2x Universal Bracket each with 1x DB9 Cutout	V	V
MEC-LAN-M102-30/UB0311	Mini-PCIe Module with 2x LAN Ports, 2x 30cm cable, w/ 1x Universal Bracket with 2x RJ45 Cutout	V	V
MEC-USB-M102-30/UB0314	Mini-PCIe Module with 2x USB 3.2 Gen1 Ports, 1x 30cm cable, 1xUniversal Bracket with 2x USB Cutout	V	V

V : Compatible