CS-115/P1201 Series

15" TFT-LCD Sunlight Readable and Modular Panel PC with Intel® Elkhart Lake Atom® x6000E Series Processor



POWER EFFICIENT SUNLIGHT READABLE PANEL PC

Overview

The CS-100/P1201 is a sunlight-readable panel PC with an Intel® Atom® (Elkhart Lake) processor and a maximum screen brightness of 1,600 nits. Available in a selection of screen sizes, aspect ratios, and brightnesses, the CS-100/P1201 has flexible expansion options, including rich native I/O interfaces (GbE LAN, USB 3.2, COM, and DIO), Mini PCIe and M.2 Key E Type 2230 expansion slots, and exclusive CFM expansion to add functions such as PoE and IGN. Cincoze's exclusive patented Convertible Display System (CDS) technology enables further flexible future computer performance upgrades and screen replacements. The robust CS-100/P1201 series is well-suited for outdoor kiosks or HMI applications.

- 15" TFT-LCD XGA with Ultra High Brightness up to 1,600 nits
- Intel[®] Elkhart Lake Atom[®] x6425E/x6211E Processor
- 1x DDR4 SO-DIMM
- Designed with Rugged Aluminum Die-casting Front Bezel
- Support Panel / VESA / Rack Mount
- Front Panel IP65 Compliant
- Wide Operating Temperature
- Cincoze Patent CDS Technology Support

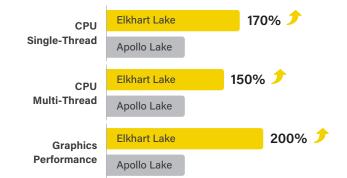


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Next-gen Performance

MHz DDR4 is supported.

CS-115/P1201 Series





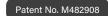
The CS-100/P1201 supports up to an Intel® Atom® x6425E (Elkhart Lake)

4-core processor, with 1.7 times the single-thread performance, 1.5 times

the multi-thread performance, and double the graphics performance of the previous-generation Apollo Lake processor. Up to 32 GB of 3200

Patented CDS Technology

Convertible Display System (CDS), the patented technology that connects the CS-100 display module to the P1201 embedded computer, has the advantages of easy maintenance in the field and easy future upgrades because the screen size can be changed and performance can be improved by only replacing a single part, rather than the whole system, saving on upgrade costs.



Comprehensive Range of Sizes

The CS-100/P1201 series has a diverse selection of screen sizes (8.4" to 24"), full HD resolution, a high brightness backlight of up to 1,600 nits, and a multi-point capacitive touchscreen to suit various application needs.





Robust, Safe, Reliable

The CS-100/P1201 series has industrial-grade protections, including wide operating temperature (-20 to 70°C), wide-range DC power input (9 to 48 VDC), and IP65 front panel dust and water resistance, to face harsh outdoor environments and unpredictable climates such as on-site HMI and production process visualization. The CS-100/P1201 (19"-24" only) has separately passed product safety standards (UL certification) for information and communication technology and audio-visual equipment in the United States, an assurance of product safety.

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CS-115 Specifications

Model Name	CS-115C	
Display		
LCD Size	• 15" (4:3)	
Max. Resolution	• 1024 x 768	
Brightness (cd/m2)	• 1600	
Contrast Ratio	• 800 : 1	
LCD Color	• 16.2M	
Pixel Pitch (mm)	• 0.297 (H) x 0.297 (V)	
Viewing Angle (H-V)	• 160 / 150	
Backlight MTBF	• 50,000 hrs (LED Backlight)	
Touch Screen		
Touch Type	Projected Capacitive	
Physical		
Dimension (W x D x H)	• 408 x 312.4 x 59.2 mm	
Weight Information	• 4.36kg	
Mechanical Construction	Flat Rugged Aluminum Die-casting Bezel	
Environment	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	

P1201 Specifications

Model Name	P1201
System	
Processor	 Intel® Atom® x6425E Processor (1.5M Cache, up to 3.00 GHz, 12W) Intel® Atom® x6211E Processor (1.5M Cache, up to 3.00 GHz, 6W)
Memory	 1x DDR4 SO-DIMM Socket Supports DDR4 3200MHz Memory Up to 32GB (un-buffered and non-ECC)
BIOS	• AMI BIOS
Graphics	
Graphics Engine	Integrated Intel® UHD Graphics
Maximum Display Output	Supports Triple Independent Display
CDS	• 1x CDS Connector (1920 x 1080 @60Hz)
DP	 1x DisplayPort Connector (4096 x 2304 @ 60Hz,According to CPU Specifications) * Verified maximum resolution: 3840 x 2160 @60Hz
VGA	• 1x VGA Connector (1920 x 1200 @60Hz)
Audio	
Audio Codec	Realtek® ALC888, High Definition Audio
Line-out	• 1x Line-out, Phone Jack 3.5mm
Mic-in	• 1x Mic-in, Phone Jack 3.5mm
I/O	
LAN	• 2x 1GbE LAN, RJ45 - GbE1: Intel® I210 - GbE2: Intel® I210
СОМ	3x RS-232/422/485 with Auto Flow Control, DB9
USB	• 3x 10Gbps USB 3.2 Gen2, Type A • 1x 480Mbps USB 2.0, Type A
DIO	• 8x Isolated DIO (4x DI/4x DO), 10-Pin Terminal Block
Storage	
SSD/HDD	• 1x 2.5" Front Accessible SATA HDD/SSD Drive Bay (SATA3.0)
mSATA	• 1x mSATA Socket (SATA 3.0, shared by Mini-PCIe socket)
Expansion	
Mini PCI Express	• 1x Full-size Mini-PCIe Socket
SIM Socket	• 1x SIM Socket
M.2	• 1x M.2 Key E Type 2230 Socket, Support Intel® CNVi/Wireless Module
CFM (Control Function Module) Interface	1x CFM IGN Interface for optional CFM-IGN Module Expansion 1x CFM PoE Interface for optional CFM-PoE Module Expansion
CDS (Convertible Display System) Interface	• 1x CDS Interface for Convertible Display Module
Other Function	
Clear CMOS Switch	1x Clear CMOS Switch
Reset Button	• 1x Reset Button

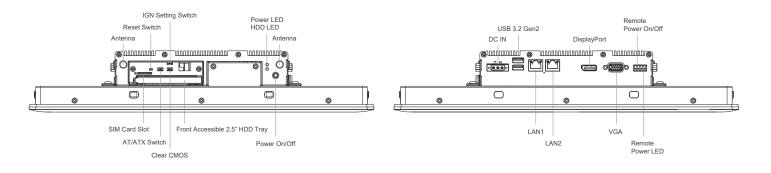
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Instant Reboot	Support 0.2sec Instant Reboot Technology	
Watchdog Timer	Software Programmable Supports 256 Levels System Reset	
OSD Button	LCD On/Off, Brightness Up, Brightness Down	
Internal Speaker	• AMP 2W + 2W	
Status LED Indicator	Power LED, HDD LED, Temperature LED	
Power		
Power Button	tx ATX Power On/Off Button	
Power Mode Switch	1x AT/ATX Mode Switch	
Power Input	• 9 - 48VDC, 3-pin Terminal Block	
Remote Power On/Off	1x Remote Power On/Off, 2-pin Terminal Block	
Remote Power LED	1x Remote Power LED, 2-pin Terminal Block	
Operating System		
Windows	• Windows® 10	
Linux	Supports by project	
Physical		
Dimension (W x D x H)	• 204.5 x 149 x 41.5 mm	
Weight Information	• 1.54 kg	
Mechanical Construction	Extruded Aluminum with Heavy Duty Metal	
Mounting	Wall / VESA / CDS / DIN Rail	
Physical Design	Fanless Design Jumper-less Design	
Reliability & Protection		
Reverse Power Input Protection	• Yes	
Over Voltage Protection	 Protection Range: 51~58V Protection Type: shut down operating voltage, re-power on at the preset level to recover 	
Over Current Protection	• 15A	
CMOS Battery Backup	SuperCap Integrated for CMOS Battery Maintenance-free Operation	
MTBF	• 283,091 Hours - Database: Telcordia SR-332 Issue3, Method 1, Case 3	
Environment		
Operating Temperature	 -40°C to 70°C * PassMark BurnInTest: 100% CPU, 2D/3D Graphics (without thermal throttling) * With extended temperature peripherals; Ambient with air flow * According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14 	
Storage Temperature	40°C to 85°C	
Relative Humidity	• 95%RH @ 70°C (non-Condensing)	
Shock	Operating, 50 Grms (w/ SSD, according to IEC60068-2-27)	
Vibration	 Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) Operating, 1 Grms, 10-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-6) 	
EMC	CE, UKCA, FCC, ICES-003 Class A EN61000-6-4, EN61000-6-2 (24VDC Input Only)	
Safety	• UL, cUL, CB, IEC/EN 62368-1	

CS-115/P1201 External Layout

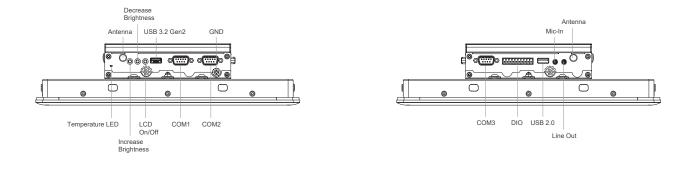
Front I/O

Rear I/O

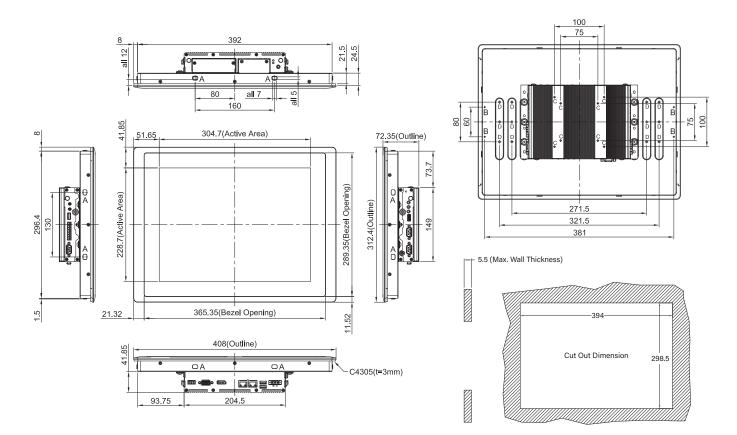








CS-115/P1201 Dimensions



Ordering Information

Available Models

Model No.	Description
CS-115C-R11/P1201-X6425E-R10	15" TFT-LCD 1600nits Sunlight Readable Touch Panel PC with Intel Atom x6425E Quad Core Processor
CS-115C-R11/P1201-X6211E-R10	15" TFT-LCD 1600nits Sunlight Readable Touch Panel PC with Intel Atom x6211E Dual Core Processor

Model Configuration

	CS-115C	P1201-X6425E	P1201-X6211E
CS-115C/P1201-X6425E	V	V	
CS-115C/P1201-X6211E	V		V

V : Compatible

Package Checklist

CS-115/P1201 Series Panel PC x 1	Power Terminal Block Connector (Female) x 1
Thermal Pad (for CPU Thermal Block) x 1	Screw Pack x 1
DIO Terminal Block Connector (Female) x 1	Remote Power On/Off Terminal Block Connector x 1
Panel Mounting Kit x 8	

Optional Modules and Accessories

Model No.	Description
CFM-PoE02	CFM Module with PoE Control Function, Individual Port 25.5W
CFM-IGN101	CFM Module with Power Ignition Sensing Control Function, 12V/24V Selectable (43 x 36 mm)
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)
GST120A24-CIN	Adapter AC/DC 24V 5A 120W, GST120A24-CIN, wide temp (-30°C \sim +70°C), level VI

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