

CS-117/P1101 Series

17" TFT-LCD Sunlight Readable Touch Panel PC with Intel® Atom® / Pentium® Processor



POWER EFFICIENT SUNLIGHT READABLE PANEL PC

| CS-100/P1000 Series |

Overview

[CONTACT](#)

CS-100/P1101 Series is a 8.4" - 24" TFT-LCD sunlight readable touch panel PC offering 1,500 nits - 1,800 nits ultra high brightness and 800 x 600 - 1920 x 1080 (SVGA) resolution. The system is based on Intel® Atom® / Pentium® processor and supports triple independent displays (via VGA and DisplayPort outputs). CS-100/P1101 Series features extensive connectivity including 2x GbE, 4x USB 3.0, 4x COM, and 8x isolated DIO. It also offers 2x full size Mini-PCle socket and 1x SIM socket for a variety of wireless data connections. Through the ready-to-use CFM modules, users can easily add power ignition sensing and Power over Ethernet (PoE) functions for a variety of applications. CS-100/P1101 Series also supports Convertible Display System (CDS) technology. Comparing with regular standalone panel PCs, it is more flexible and reduces maintenance cost dramatically. Featuring with rigorous industrial protections, wide range operating temperature, IP65 dust/waterproof front panel, and wide range DC power input (9 to 48VDC), CS-100/P1101 Series is appropriate for harsh environments and critical applications.

Key Features

- 17" TFT-LCD SXGA with Ultra High Brightness up to 1,500 nits
- Onboard Intel® Atom® / Pentium® Processor
- Triple Independent Displays (via VGA and DisplayPort outputs)
- Rich I/O (2x GbE LAN, 4x USB 3.0, 4x COM, 8x Isolated DIO)
- 2x Full Size Mini-PCle, 1x 2.5" SATA Drive Bay, 1x mSATA Socket
- Wide Range Operating Temperature
- Designed with Aluminum Die-casting Front Frame
- True Flat IP65 Front Panel Protection
- Supports CDS Technology, Ignition Sensing and Power over Ethernet
- Supports Panel / VESA / Rack Mounting

Certifications



Sunlight Readable

Providing ultra high brightness 1,500 nits - 1,800 nits and resolution up to 800 x 600 - 1920 x 1080 (XGA), CS-100/P1101 Series is suitable for all lighting conditions including direct sunlight.



Wide Temperature

CS-100/P1101 Series supports wide range operating temperature and is suitable for deploying in extreme and harsh environments.

Multiple Functions

CS-100/P1101 Series provides extensive I/O, Mini-PCIe slot, 2.5" SATA drive bay, mSATA socket, and SIM card slot. It also supports power ignition sensing and PoE by adding ready-to-use CFM modules.



CS-117 Specifications

Model Name	CS-117
Display	
LCD Size	• 17" (5:4)
Max. Resolution	• 1280 x 1024 (SXGA)
Brightness (cd/m2)	• 1500
Contrast Ratio	• 800 : 1
LCD Color	• 16.7M
Pixel Pitch (mm)	• 0.264 (H) x 0.264 (V)
Viewing Angle (H-V)	• 160 / 140
Backlight LED Life Time	• 50,000 hrs (LED Backlight)
Touch Screen	
Touch Type	• Projected Capacitive
Physical	
Dimension (W x D x H)	• 450 x 350 x 63.2mm
Weight Information	• 5.64 kg
Mechanical Construction	• Flat Rugged Aluminum Die-casting Bezel
Power	
Power Consumption	• 30.65W (Typ.)
Environment	
Front Panel Protection	• IP 65 Compliant
Operating Temperature	• -20°C to 80°C (With Industrial Grade Peripherals; Ambient with air flow)
Storage Temperature	• -30°C to 80°C
Relative Humidity	• 90% RH @ 40°C (Non-condensing)
EMC	• CE, UKCA, FCC, ICES-003 Class A
EMI	• CISPR 32 Conducted & Radiated: Class A • EN/BS EN 55032 Conducted & Radiated: Class A • EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A • EN/BS EN61000-3-3 Voltage fluctuations & flicker • FCC 47 CFR Part 15B, ICES-003 Conducted & Radiated: Class A
EMS	• EN/IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV • EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 3 V/m • EN/IEC 61000-4-4 EFT: AC Power: 1 kV; DC Power: 0.5 kV; Signal: 0.5 kV • EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV • EN/IEC 61000-4-6 CS: 3V • EN/IEC 61000-4-8 PFMF: 50 Hz, 1A/m • EN/IEC 61000-4-11 Voltage Dips & Voltage Interruptions: 0.5 cycles at 50 Hz
Safety	• UL, cUL, CB, IEC, EN 62368-1

P1101 Specifications

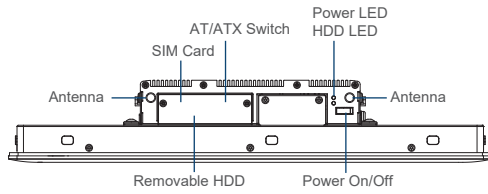
Model Name	P1101
System	
Processor	- Onboard Intel® Atom® x7-E3950 Quad Core Processor, up to 2.00 GHz - Onboard Intel® Pentium® N4200 Quad Core Processor, up to 2.50 GHz
Memory	1x DDR3L 1333/1600/1866 MHz SO-DIMM Socket, with up to 1600 MHz operation - Supports Un-buffered and Non-ECC Type, Up to 8GB
Graphics	
Graphics Engine	Integrated Intel® HD Graphics 505
Maximum Display Output	Supports Triple Independent Display
CDS (Convertible Display System) Technology	1x Convertible Display System (CDS) Interface
VGA	1x VGA (1920 x 1200 @60Hz)
DP	1x DisplayPort (4K x 2K @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 GbE LAN (Supports WoL, Teaming, Jumbo Frame & PXE), RJ45 - GbE1: Intel® I210 - GbE2: Intel® I210
USB	4x USB 3.2 Gen1 (Type A)
Serial Port	4x RS-232/422/485 with Auto Flow Control Support 5V/12V, DB9
DIO	8x Isolated Digital I/O (4in/4out), 10-Pin Terminal Block
Storage	
SSD/HDD	1x 2.5"SATA HDD Bay (SATA 3.0)
SIM Socket	1 x SIM Socket
mSATA	1x mSATA Socket (SATA 3.0, Shared by Mini-PCIe Socket)
Expansion	
Mini PCI Express	2x Full-size Mini-PCIe Socket
CFM (Control Function Module) Interface	- Optional CFM IGN Module for Power Ignition Function - Optional CFM PoE Module for Power over Ethernet Function
CDS (Convertible Display System) Technology	1x Convertible Display System (CDS) Interface
Antenna Holes	4x Antenna Holes
Other Function	
Instant Reboot	Support 0.2sec
Watchdog Timer	Software Programmable Supports 256 Levels System Reset
Internal Speaker	AMP 2W + 2W

OSD Function	LCD On/Off, Brightness Up, Brightness Down
Clear CMOS Switch	1x Clear CMOS Switch
Reset Button	1x Reset Button
Power	
Power Switch	• 1x Power Switch
Power Mode Switch	• 1x AT/ATX Mode Switch
Power Input	• 1x 3-pin Terminal Block Connector with Power Input 9~48VDC
Power Adapter (Optional)	• 1x Optional AC/DC 12V/5A 60W or 24V/5A 120W
Remote Power On/Off	• 1x Remote Power On/Off Connector, 2-pin Terminal Block
Physical	
Dimension (W x D x H)	• 204.5 x 149 x 41.5 mm
Weight Information	• 1.49kg
Mechanical Construction	• Extruded Aluminum with Heavy Duty Metal
Physical Design	• Fanless Design • Jumper-less Design
Mounting	• Wall / VESA / CDS / DIN Mounting
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	• 15A
CMOS Battery Backup	• SuperCap Integrated for CMOS Battery Maintenance-free Operation
MTBF	• Time: 294,617 hours
Operating System	
Microsoft® Windows®	• Windows®10
Linux	• Supports by project
Environment	
Operating Temperature	• Ambient with Air Flow: -40°C to 70°C (with Extended Temperature Peripherals)
Storage Temperature	• -40°C to 85°C
Relative humidity	• 95% RH @ 75°C (Non-condensing)
Shock	• Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
Vibration	• Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
EMC	• CE, UKCA, FCC, ICES-003 Class A
EMI	• CISPR 32 Conducted & Radiated: Class A • EN/BS EN 55032 Conducted & Radiated: Class A • EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A • EN/BS EN61000-3-3 Voltage fluctuations & flicker • FCC 47 CFR Part 15B, ICES-003 Conducted & Radiated: Class A

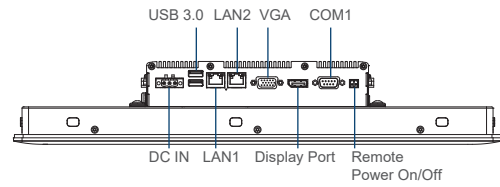
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Safety	• LVD IEC/EN 62368-1

CS-117/P1101 External Layout

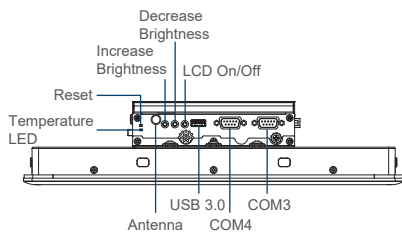
Front I/O



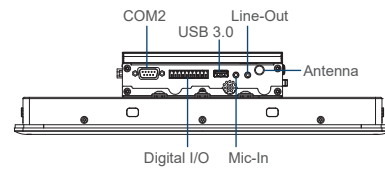
Rear I/O



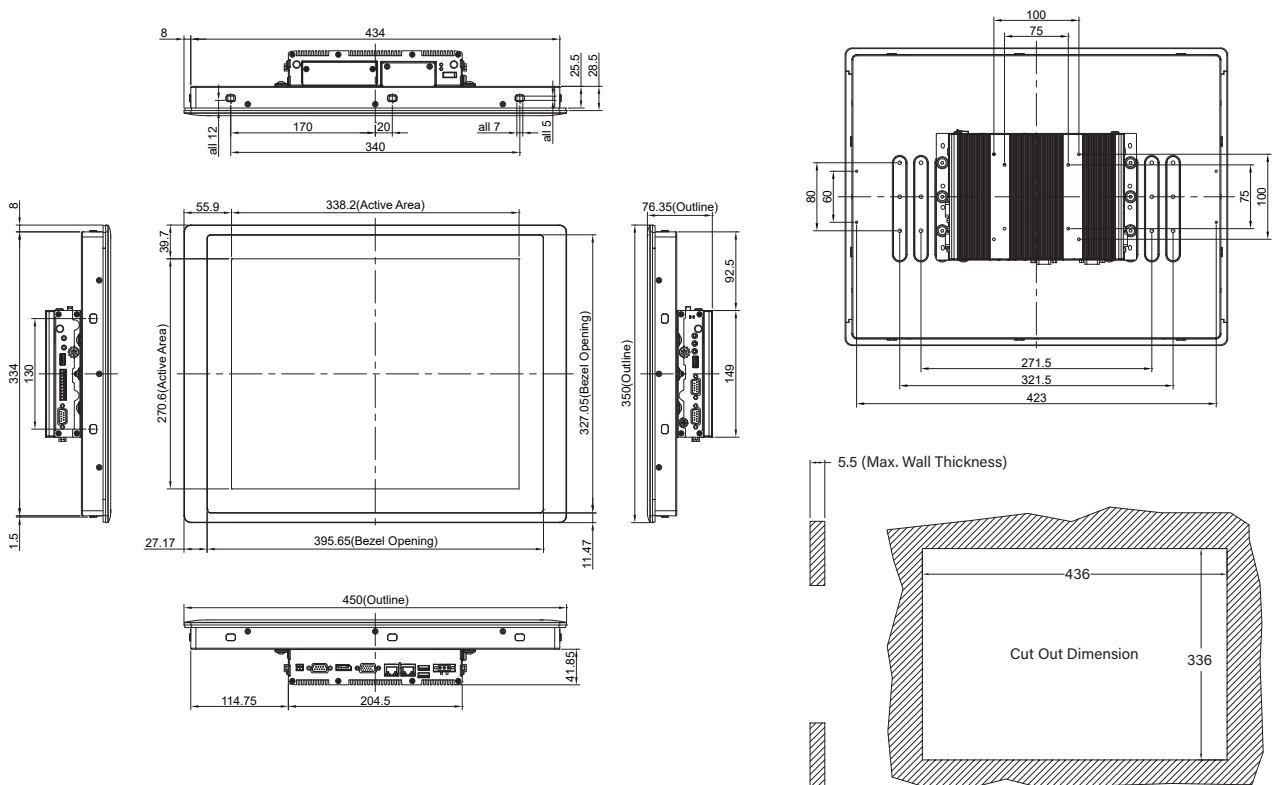
Left I/O



Right I/O



CS-117/P1101 Dimensions



Unit: mm

Ordering Information

Available Models

Model No.	Description
CS-117C-R11/P1101-E50-R11	17" TFT-LCD 1500nits Sunlight Readable Touch Panel PC with Intel® Atom® E3950 Quad Core Processor and P-Cap. Touch
CS-117C-R11/P1101-N42-R11	17" TFT-LCD 1500nits Sunlight Readable Touch Panel PC with Intel® Pentium® N4200 Quad Core Processor and P-Cap. Touch

Model Configuration

	CS-117C	P1101-E50	P1101-N42
CS-117C/P1101-E50	V	V	--
CS-117C/P1101-N42	V	--	V

V : Compatible

Package Checklist

▪ CS-117/P1101 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
CFM-IGN101	CFM Module with Power Ignition Sensing Control Function, 12V/24V Selectable (43 x 36 mm)
CFM-PoE02	CFM Module with PoE Control Function, Individual Port 25.5W
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 ~ +70°C), level VI
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