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CS-117/P2102



17" TFT-LCD Sunlight Readable and Modular Panel PC with 8th Gen. Intel[®] Core[™] U Series Processor

- 17" TFT-LCD with Ultra-high Brightness up to 1,500 nits and 1280 x 1024 (SXGA) Resolution
- Onboard 8th Generation Intel[®] Core[™] U Series Processor
- 2x DDR4 SO-DIMM Socket, Supports Up to 2400MHz, 64GB
- Supports Triple Independent Display
- Integrated USB 3.2 Gen 2 supports up to 10Gbps
- M.2 E Key Socket for Wireless Module or Intel CRF Module
- Supports Ignition Sensing Function (IGN) (with optional CFM module)
- Supports 2x PoE+ Function (with optional CFM module)
- Wide Range Operating Temperature -20°C to 70°C
- Designed with Rugged Aluminum Die-casting Front Bezel
- True Flat IP65 Compliant Front Panel Protection
- Supports Panel / VESA / Rack Mounting

Overview

CE

FC

The CS-117/P2102 is a 17" TFT-LCD sunlight readable panel PC that offers sufficient screen brightness for better image quality in outdoor usage. The panel PC is powered by Intel® 8th generation Core[™] U series processor that brings outstanding computing performance boost up to 84% at a TDP of 15 watts, compared to 6th generation Intel® Core[™] U series. To enable faster responsiveness and deal with multi tasks with ease, the CS-117/P2102 is equipped with two DDR4 2400 SODIMM sockets for up to 64 GB memory.

With its slim design, the CS-117/P2102 offers extensive I/O to fulfill different connectivities and can easily fit into almost any space limited environment. For wireless connectivity, the CS-117/P2102 has 1x M.2 2230 E key and 2x full-size Mini-PCIe expansions which can be installed various add-on cards to enable Wi-Fi, 3G, and LTE communication. Besides, the CS-117/P2102 supports Control Function Module (CFM) Technology to install optional CFM modules for increasing power over ethernet and power ignition sensing functions according to user's specific applications. Featuring rigorous industrial protections, wide range operating temperature (-20°C to 70°C), IP65 dust/waterproof front panel, and wide range DC power input (9 to 48VDC), the CS-117/P2102 is appropriate for tough outdoor applications under direct sunlight.

Furthermore, the CS-117/P2102 supports Cincoze patented Convertible Display System (CDS) technology, allowing users to replace display module or computer module on-site easily and thereby reducing maintenance costs and downtime.

Highlights



High Performance Per Watt

Powered by 8th generation Intel® Core [™] U series processor (up to 4 cores, 4.10 GHz) at a TDP of only 15W, the CS-117/P2102 can fulfill a variety of applications that require high-performance computing and low power budget simultaneously.



Sunlight Readable

Featuring ultra-high brightness 1,500 nits, resolution up to 1280 x 1024 (SXGA), the CS-117/P2102 provides excellent viewing experience under all lighting conditions including direct sunlight.



Built For Extreme Temperature Built with wide operating temperature ranges and a special selection of industrial-grade components, the CS-117/P2102 is suitable for deploying under extreme environments and severe climate.



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Specifications

Display

- LCD Size: 17" (5:4)
- Max. Resolution: 1280 x 1024
- 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 MTBF: 50000 hrs (LED Backlight)

Touch

Projected Capacitive Touch

Processor System

- Onboard 8th Intel[®] Core[™] U Processors (Whiskey Lake)
- Intel® Core™ i5-8365UE Quad Core Processor (6M Cache, up to 4.10 GHz)
- Intel® Core™ i3-8145UE Dual Core Processor (4M Cache, up to 3.90 GHz)
- TDP: 15 W

Memory

- 2x DDR4 2400 MHz 260-Pin SO-DIMM Socket
- Supports up to 64 GB (un-buffered and non-ECC)

Graphics

- Integrated Intel[®] UHD Graphics 620
- Supports Triple Independent Display (via VGA and DisplayPort Outputs)

Audio Codec

- Realtek ALC888-GR

External I/O Interface

- 1x VGA (1920 x 1200 @60Hz)
- 1x DisplayPort (4096 x 2304 @ 60Hz)
- 2x GbE LAN (Supports WoL, Teaming, Jumbo Frame & PXE), RJ45
 GbE1: Intel® I219-LM
- GbE2: Intel® I210
- 3x USB 3.2 Gen2 (Type A)
- 2x USB 2.0 (Type A)
- 4x RS-232/422/485 with Auto Flow Control (Supports 5V/12V), DB9
- 1x Speaker-out & 1x Mic-in, Phone Jack 3.5mm
- 1x ATX Power On/Off Button
- 1x Reset Button
- Ix AT/ATX Mode Switch
- 1x Clear CMOS Switch
- 1x Remote Power On/Off Connector, 2-pin Terminal Block
- 16x Isolated DIO (8x DI/8x DO), 20-Pin Terminal Block
- 1x Ignition DIP Switch (12V/24V, need to work with CFM module)

Storage

- 2x 2.5" HDD/SSD Drive Bay (SATA 3.0), Supports RAID 0/1

Expansion

- 2x Full-size Mini-PCIe Socket
- 1x M.2 2230 E Key Socket for Wireless Module, Supports Intel CRF Module
- 2x Control Function Module (CFM) Interface
- 1x Front Accessible SIM Socket
- 4x Antenna Hole

Other Functions

- Watchdog Timer: Software Programmable Supports 256 Levels
 System Reset
- Internal Speaker AMP 2W + 2W
- OSD Function: LCD On/Off, Brightness Up, Brightness Down
- SuperCap Integrated for CMOS Battery Maintenance-free Operation
- Supports Instant Reboot Technology (0.2 sec)

Power Requirement

- Supports AT/ATX Power Type
- Power Input Voltage 9~48VDC
- 1x 3-pin Terminal Block
- Power Adapter (Optional): AC/DC 24V/5A 120W

Physical

- Dimension (WxDxH, mm): 450 x 350 x 76 mm
- Weight: 7.9 kg
- Construction: Rugged Aluminum Die-casting Front Bezel and Heavy
 Duty Metal Chassis
- Mounting: Panel / VESA / *Rack Mounting (*with optional mounting kit)
- Fanless Design
- Jumper-less Design

Environment

- Operating Temperature: -20°C to 70°C
- (with Extended Temperature Peripherals; Ambient with Air Flow)
- Storage Temperature: -20°C to 70°C
- Relative Humidity: 80% RH @ 40°C (Non-condensing)
- Shock: Operating, 15 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
- Vibration: Operating, 1.5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
- IP Level: IP65 Compliant Front Panel
- EMC: CE, FCC Class A

Protection

- Reverse Power Input Protection
- 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
- ESD Protection: +/-8kV (air), +/-4kV (contact)
- Surge Protection: 3.84 kV (impedance 12 ohm 1.2/50µs waveform)

Operating System

- Windows[®] 10
- Linux: Supports by project

CS-117/P2102

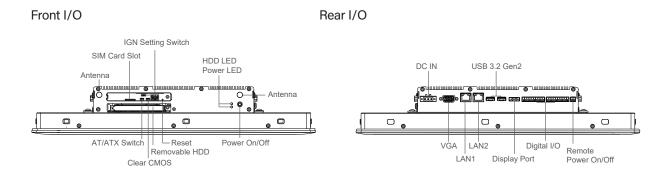


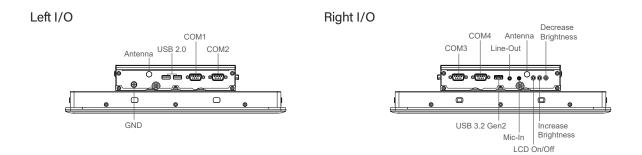


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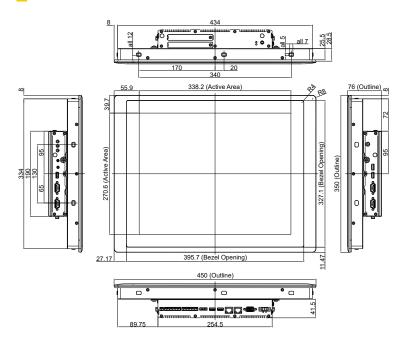
CS-117/P2102

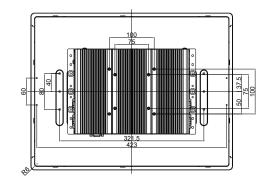
External Layout

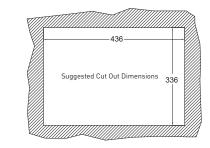




Dimensions







Unit: mm



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Ordering Information

Available Models

Model No.	Description
CS-117C-R11/P2102-i5-R10	17" 1500nits TFT-LCD Sunlight Readable and Modular Panel PC with 8th Gen. Intel Core i5-8365UE Quad Core
	Processor and P-Cap. Touch
CS-117C-R11/P2102-i3-R10	17" 1500nits TFT-LCD Sunlight Readable and Modular Panel PC with 8th Gen. Intel Core i3-8145UE Quad Core
	Processor and P-Cap. Touch

Package Checklist

CS-117/P2102 Panel PC x 1	DIO Terminal Block Connector x 2
Thermal Pad (for CPU Thermal Block) x 1	Utility Driver DVD x 1
Power Terminal Block Connector x 1	 Screws Pack x 5
Remote Power On/Off Terminal Block Connector x 1	 Panel Mounting Kit x 1

Optional Modules & Accessories

Model No.	Description	
CFM-IGN101	CFM Module with Power Ignition Sensing Control Function, 12V/24V Voltage Detection Selectable	
CFM-PoE04	CFM Module with PoE Control Function, Individual Port 25.5W	
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	
URM01	Universal 19" Rack Mount Kit for Industrial Panel PC & Industrial Monitor	

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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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