CS-115/P2202 Series

15" TFT-LCD XGA 4:3 Sunlight Readable Modular / Expandable Panel PC with 12th Gen. Intel® Core™ i5 / i3 Processor & Projected Capacitive Touch



HIGH-PERFORMANCE SUNLIGHT READABLE PANEL PC

| CS-100/P2000 Series |

Overview

CONTACT

The CS-100/P2202 series is a sunlight-readable high-performance panel PC that provides ultra-high brightness of up to 1,800 nits. It is equipped with an Intel® Core™ U-series (Alder Lake-P) processor that provides a complete selection of screen sizes, ratios, and brightnesses. Rich I/O, flexible expansion, rugged, easy on-site maintenance, and other features make the CS-100/P2202 series the best choice for outdoor kiosk or HMI applications.

Key Features

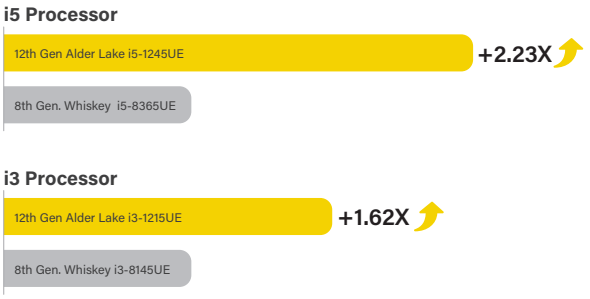
- 15" TFT-LCD with Projected Capacitive Touch
- Onboard Intel® Alder Lake-P U-Series Core™ Processor
- 2x DDR5 SO-DIMM Socket, Supports up to 4800MHz 64GB Memory
- Ultra High Brightness up to 1,800 nits
- Quad Independent Display (CDS / HDMI® / DP / VGA)
- 1x M.2 Key E Type 2230 Socket for Storage/Wireless/Bluetooth/Intel CNVi Module Expansion
- Designed with Aluminum Die-cast Front Bezel
- Front Panel IP65 Compliant

Certifications

EN 61000-6-4 CDS CFM TECHNOLOGY

Excellent Computing Performance

The CS-100/P2202 series is equipped with the 12th Gen Intel® Core™ i5/i3 U-series (Alder Lake-P) processor based on the Intel® 7 process. The U-series has a low power consumption of only 15W, boasts excellent performance with up to 10 cores (2P+8E), and includes the built-in Intel® Iris Xe graphics to easily handle image classification inference performance in AI deep learning.





CDS Patented Technology

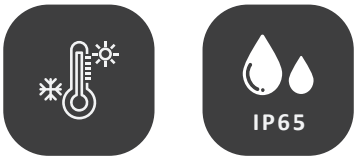
Cincoze Convertible Display System (CDS) patented technology makes field-side maintenance and future upgrades easier. Replacing a display or improving system performance only requires replacing a single component, which significantly cuts upgrade costs.

Patent No. M482908

Complete Range of Sizes

The CS-100/P2202 series offers a variety of display options, with screen sizes from 12 to 24 inches, support for up to full HD resolution, high brightness up to 1,800 nits, and multi-point P-Cap touchscreen, which can be selected according to application needs.





Wide Temps, Safe, Reliable

In order to overcome the harsh outdoor environment and unpredictable climate, the CS-100/P2202 series has a series of industrial-grade protections, including a wide operating temperature range that beats the industry standard and an IP65 dustproof/water resistant front panel to ensure a high degree of product safety.

CS-115 Specifications

Model Name	CS-115
Display	
LCD Size	▪ 15" (4:3)
Max. Resolution	▪ 1024 x 768 (XGA)
Brightness (cd/m2)	▪ 1800
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 LED Life Time	▪ 50,000 hrs (LED Backlight)
Touch Screen	
Touch Type	▪ Projected Capacitive
Wet Touch Tracking	v
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
Power	
Power Consumption	▪ 27.26W (Max.)
Environment	
Front Panel Protection	▪ IP 65 Compliant
Operating Temperature	▪ -20°C to 70°C (-4°F to 158°F) (With Industrial Grade Peripherals; Ambient with air flow)
Storage Temperature	▪ -30°C to 70°C (-22°F to 158°F)
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

P2202 Specifications

Model Name	P2202	P2202E
System		
Processor	▪ Onboard 12th Generation Intel® Alder Lake-P U-Series CPU: - Intel® Core™ i5-1245UE 10 Cores Up to 4.40 GHz, TDP 15W - Intel® Core™ i3-1215UE 6 Cores Up to 4.40 GHz, TDP 15W	
Memory	▪ 2x DDR5 4800MHz SO-DIMM Socket Supports Un-buffered and non-ECC Type, Up to 64GB	
BIOS	▪ AMI BIOS	
Graphics		
Graphics Engine	▪ Integrated Intel® Iris® Xe Graphics: Core™ i5-1245UE ▪ Integrated Intel® UHD Graphics: Core™ i3-1215UE	
Maximum Display Output	▪ Supports Quad Independent Display	
CDS	▪ 1x CDS Connector (1920 x 1080 @60Hz)	
DP	▪ 1x DisplayPort Connector (4096 x 2304 @60Hz) * Verified maximum resolution: 3840 x 2160 @ 60Hz	
HDMI®	▪ 1x HDMI® Connector (3840 x 2160 @30Hz)	
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® I219 - GbE2: Intel® I210	
COM	▪ 4x RS-232/422/485 with Auto Flow Control (Supports 5V/12V), DB9	
USB	▪ 3 x USB 3.2 Gen2x1 (10Gbps), Type A ▪ 1 x USB 2.0 (480Mbps), Type A	
DIO	▪ 16x Isolated Digital I/O (8in/8out), 20-Pin Terminal Block	
Storage		
SSD/HDD	▪ 2x 2.5" SATA HDD/SSD Bay (SATA3.0)	
RAID	▪ Support RAID 0/1	
Expansion		
Mini PCI Express	▪ 2x Full-size Mini-PCIe Socket	
PCI Express		▪ 1x PCI or 1x PCIe x4 Expansion slot (with Optional Riser Card) * Supports maximum dimensions of add-on card (H x L) : 111 x 169mm
SIM Socket	▪ 1x SIM Socket	
M.2	▪ 1x M.2 Key E Type 2230 Socket (PCIe Gen 3x2 / USB2.0), Support Storage/Wireless/Bluetooth/Intel CNVi Module Expansion	
CFM (Control Function Module) Interface	▪ 1x CFM Interface for optional IGN Module Expansion ▪ 1x CFM Interface for optional PoE Module Expansion	

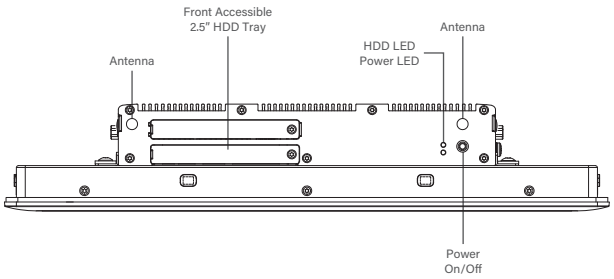
CDS (Convertible Display System) Interface	▪ 1x CDS Interface for Convertible Display Module	
Other Function		
Clear CMOS Switch	▪ 1x Clear CMOS Switch	
Reset Button	▪ 1x Reset Button	
Watchdog Timer	▪ Software Programmable Supports 256 Levels System Reset	
OSD Button	▪ LCD On/Off, Brightness Up, Brightness Down	
Internal Speaker	▪ AMP 2W + 2W	
Status LED Indicator	▪ Power LED, HDD LED	
Power		
Power Button	▪ 1x 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	
Max. Power Consumption	▪ i5-1245UE CPU: 95.06W - Test conducted with CPU, 1x RAM, and 1x storage - 100% load during burn-in testing	
Inrush Current (Peak)	▪ i5-1245UE CPU: 5.381 A@24V	
Operating System		
Windows	▪ Windows®11, Windows®10	
Linux	▪ Ubuntu Desktop 22.04 LTS	
Physical		
Dimension(W x D x H)	▪ 254.5 x 190 x 41.5 mm	▪ 254.5 x 190 x 61 mm
Weight Information	▪ 2.22 kg	▪ 2.74 kg
Mechanical Construction	▪ Extruded Aluminum with Heavy Duty Metal	
Mounting	▪ Wall / VESA / CDS / DIN Rail	
Physical Design	▪ Fanless Design ▪ Jumper-less Design	
Reliability & Protection		
Reliability & Protection	▪ Yes	
Reverse Power Input 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	▪ 216,747 Hours - Database: Telcordia SR-332 Issue3, Method 1, Case 3	
Environment		
Operating Temperature	▪ i3-1215UE : -40°C to 70°C ▪ i5-1245UE : -20°C to 70°C * 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 (-40°F to 185°F)	
Relative Humidity	▪ 95%RH @ 70°C (non-Condensing)	

Shock	▪ Operating, 50 Grms (w/ SSD, according to IEC60068-2-27)
Vibration	▪ Operating, 1 Grms, 10-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-6) ▪ Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
EMC	▪ CE, UKCA, FCC, ICES-003 Class A ▪ EN IEC 61000-6-4, EN IEC 61000-6-2(24VDC Input Only)
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: 10 V/m ▪ EN/IEC 61000-4-4 EFT: AC Power: 2 kV; DC Power: 1 kV; Signal: 1 kV ▪ EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV ▪ EN/IEC 61000-4-6 CS: 10V ▪ EN/IEC 61000-4-8 PFMF: 50 Hz, 30A/m ▪ EN/IEC 61000-4-11 Voltage Dips & Voltage Interruptions: 1 cycles at 60 Hz
Safety	▪ UL, cUL, CB, IEC/EN 62368-1

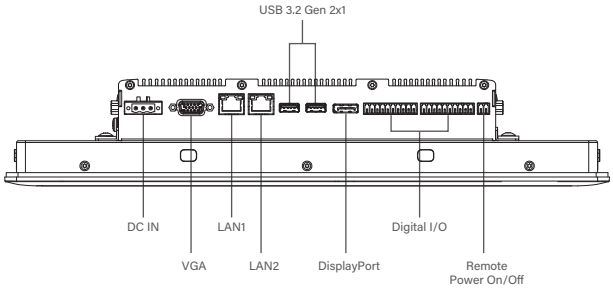
The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

CS-115/P2202 External Layout

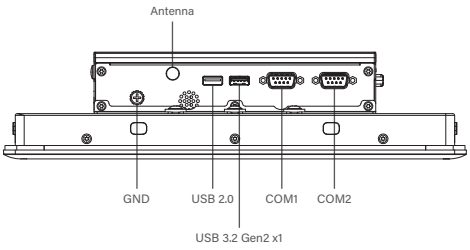
Front I/O



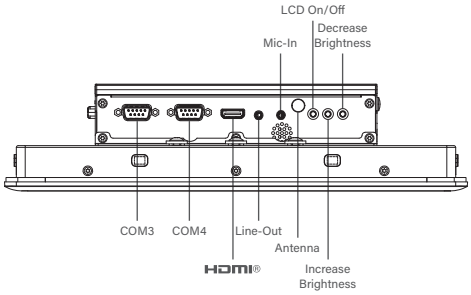
Rear I/O



Left I/O

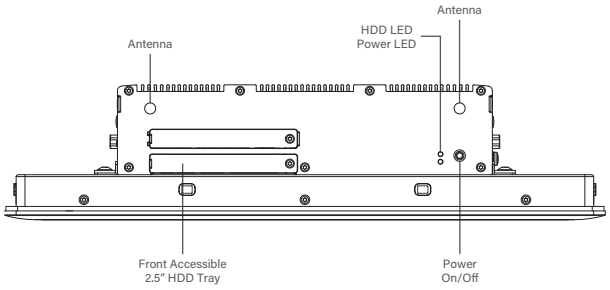


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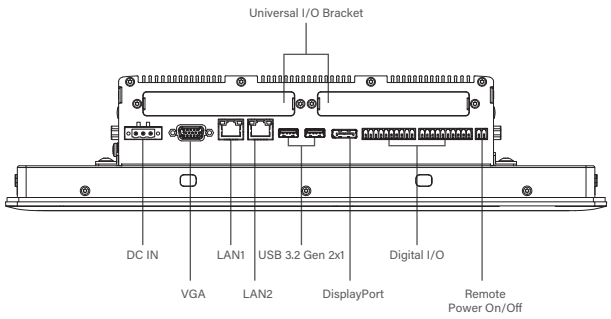


CS-115/P2202E External Layout

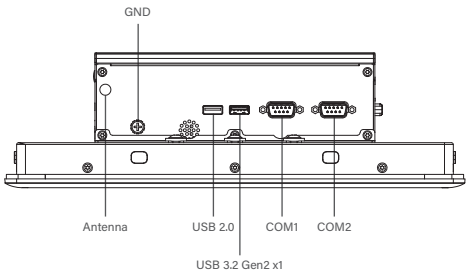
Front I/O



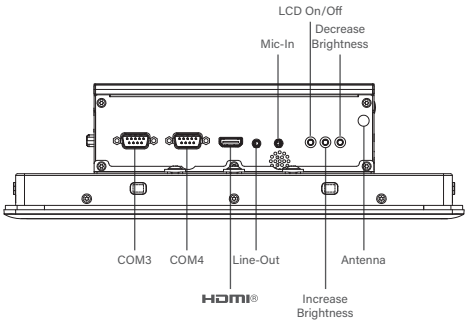
Rear I/O



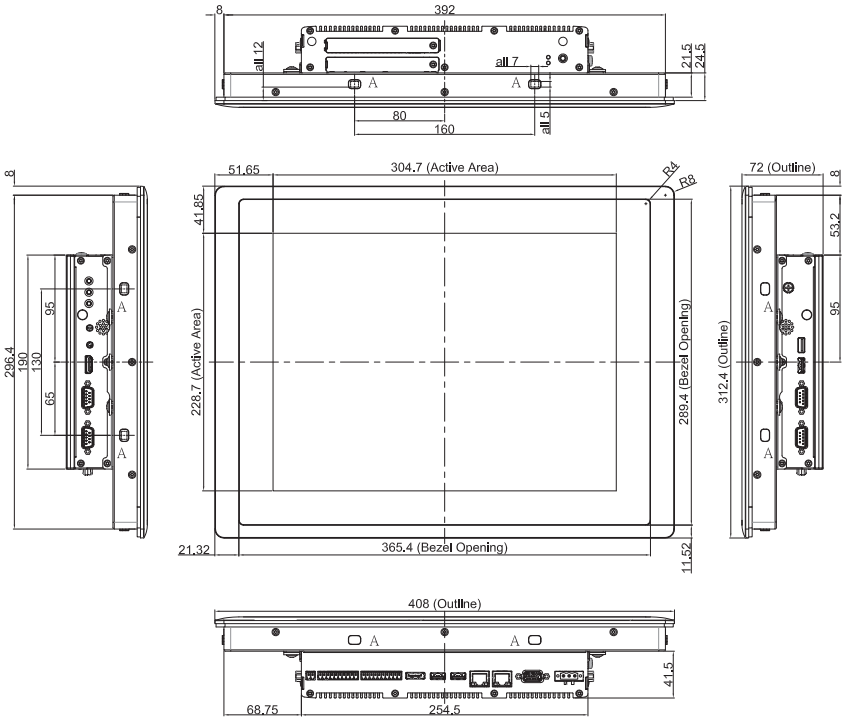
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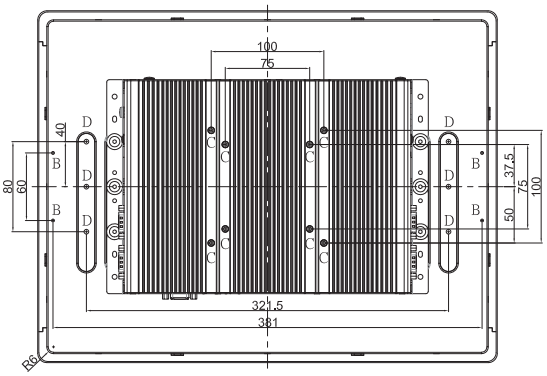


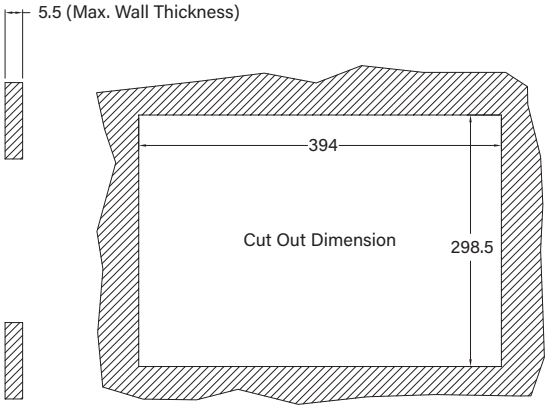
Right I/O



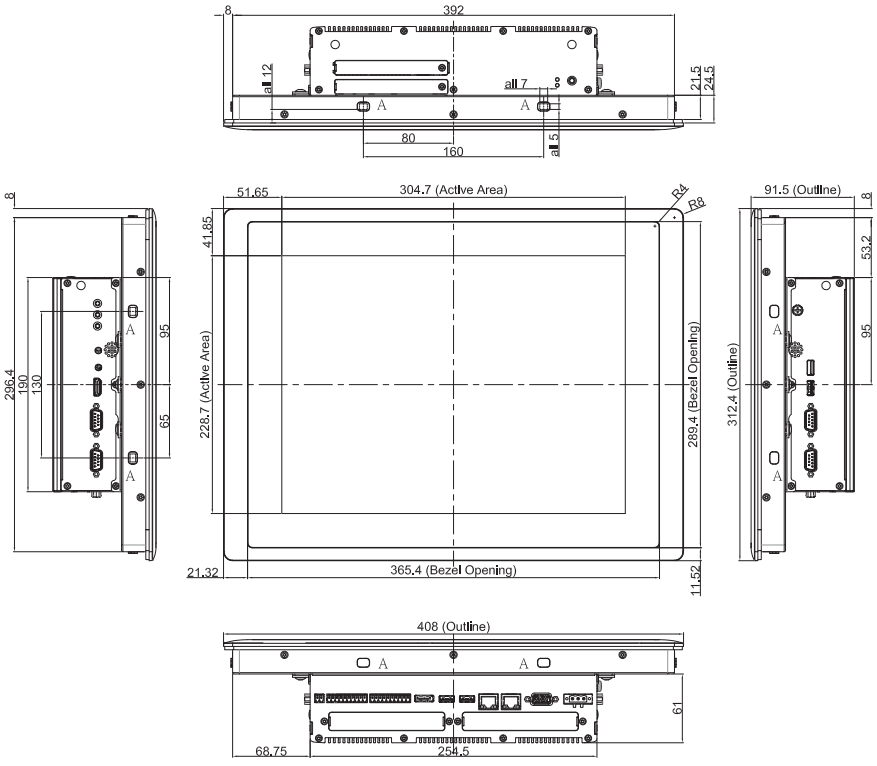
CS-115/P2202 Dimensions

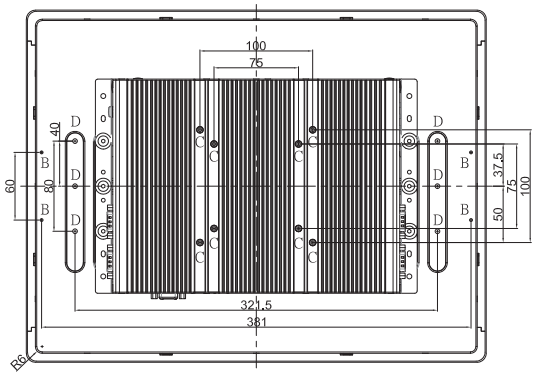


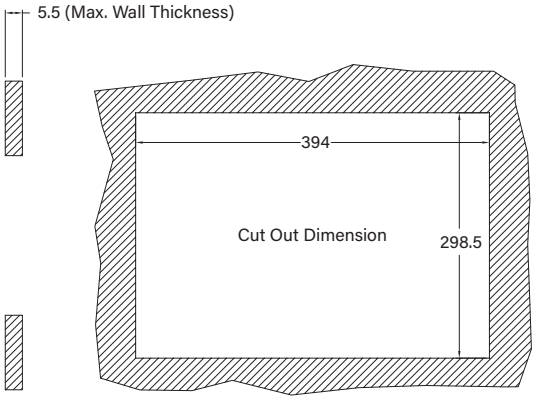




CS-115/P2202E Dimensions







Unit: mm

Ordering Information

Available Models

Model No.	Description
CS-115C-R11/P2202-i5-R11	15" TFT-LCD 1800 nits XGA 4:3 Display Modular Panel PC with 12th Gen. Intel® Core™ i5-1245UE Processor and Projected Capacitive Touch
CS-115C-R11/P2202E-i5-R11	15" TFT-LCD 1800 nits XGA 4:3 Display Modular and Expandable Panel PC with 12th Gen. Intel® Core™ i5-1245UE Processor and Projected Capacitive Touch
CS-115C-R11/P2202-i3-R10	15" TFT-LCD 1800 nits XGA 4:3 Display Modular Panel PC with 12th Gen. Intel® Core™ i3-1215UE Processor and Projected Capacitive Touch
CS-115C-R11/P2202E-i3-R10	15" TFT-LCD 1800 nits XGA 4:3 Display Modular and Expandable Panel PC with 12th Gen. Intel® Core™ i3-1215UE Processor and Projected Capacitive Touch

Model Configuration

	CS-115C	P2202(i3/i5)	P2202E(i3/i5)
CS-115C/P2202	V	V	--
CS-115C/P2202E	V	--	V

V : Compatible

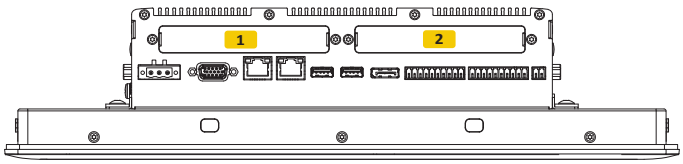
Package Checklist

▪ CS-115/P2202 Series Panel PC x1	▪ Thermal Pad x1
▪ Power Terminal Block x1	▪ Screw Pack x5
▪ Remote Power On/Off Terminal Block Connector x1	▪ Panel Mounting Kit x1
▪ DIO Terminal Block Connector x2	▪ DIN Rail Mounting Kit x1
▪ PCI / PCIe Card Installation Kit x1 (For P2202E Only)	

Optional Modules and 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 (For P2202 Only)
CFM-PoE05	CFM Module with PoE Control Function, Individual Port 25.5W (For P2202E Only)
RC-E4-02	Riser Card with 1x PCIe x4 Slot (For P2202E Only)
RC-PI-02	Riser Card with 1x PCI Slot (For P2202E Only)
MEC-COM-M212-TDB9	Mini-PCIe Module with 2x RS-232 Ports, 1x Thin DB9 Cable (For P2202E Only)
MEC-COM-M334-TDB9	Mini-PCIe Module with 4x RS-232/422/485 Ports, 2x Thin DB9 Cable (For P2202E Only)
MEC-USB-M102-30	Mini-PCIe Module with 2x USB 3.0 Ports, 1x 30cm cable (For P2202E Only)
MEC-LAN-M102-30	Mini-PCIe Module with 2x LAN Ports, 2x 30cm cable (For P2202E Only)
UB1203	1x Universal Bracket with 2x DB9 Cutout (For P2202E Only)
UB1211	1x Universal Bracket with 2x RJ45 Cutout (For P2202E Only)
UB1214	1x Universal Bracket with 2x USB Cutout (For P2202E Only)
URM01	Universal 19" Rack Mount Kit for Industrial Panel PC & Industrial Monitor
GST220A24-CIN	Adapter AC/DC 24V 9.2A 220W with 3pin Terminal Block Plug 5.0mm Pitch, with TUBES, level VI
GST360A24-CIN	Adapter AC/DC 24V 15A 360W with 3pin Terminal Block Plug 5.0mm Pitch, with TUBES, Level VI

Optional Module Configuration (For P2202E only)



Model No.	Description	1	2
MEC-COM-M212-TDB9/UB1203 	Mini-PCIe Module with 2x RS-232 Ports, 1x Thin DB9 Cable / 1x Universal Bracket with 2x DB9 Cutout	V	V
MEC-COM-M334-TDB9/UB1203 	Mini-PCIe Module with 4x RS-232/422/485 Serial Ports/ 2x Universal Bracket each with 2x DB9 Cutout	V	V
MEC-LAN-M102-30/UB1211 	Mini-PCIe Module with 2x LAN Ports, 2x 30cm cable / 1x Universal Bracket with 2x RJ45 Cutout	V	V
MEC-USB-M102-30/UB1214 	Mini-PCIe Module with 2x USB 3.2 Gen1 Ports, 1x 30cm cable / 1x Universal Bracket with 2x USB Cutout	V	V

V : Compatible

Updated: Sep. 30, 2026.

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