

CO-W121C/P1101 Series

21.5" TFT Full HD 16:9 Panel PC with Intel® Atom® / Pentium® Processor



ALL-NEW OPEN FRAME PANEL PC

CO-100/P1101 Series Fits Any Machine Perfectly

Overview

Cincoze power efficient open frame modular panel PCs (CO-W121C/P1101 Series) support Intel® Atom® and Pentium® processors, and multiple displays. Native I/O ports include LAN, USB, COM, and DIO, and the series supports CFM technology, offering expansion functions such as Power Ignition Sensing (IGN) to meet different application needs. The integrated structure, exclusive adjustable mounting bracket, and support for various mounting methods enable a perfect fit in cabinets of different materials and thicknesses. The robust design also meets the application needs of harsh industrial environments.

- 21.5" TFT-LCD with Projected Capacitive Touch
- Onboard Intel® Atom® / Pentium® Processor
- 1x DDR3L SO-DIMM max. up to 8GB
- Designed with Adjustable Mounting Bracket
- Support Flat / Standard / VESA / Rack Mount
- Front Panel IP65 Compliant
- Wide Operating Temperature
- Cincoze Patent CDS Technology Support







Power Efficient & Multi-Display

Powered by Intel® Atom® or Pentium® processor with support for multiple displays.







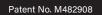


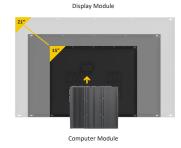
Rich I/O for Flexible Expansion

Native I/O ports include LAN, USB, COM, DIO, Mini-PCIe, and SIM slot, while the whole series supports CFM technology for additional expansion functions like Power Ignition Sensing (IGN) or Power over Ethernet (PoE) to meet different application needs.

Patented CDS Technology

The patented CDS (Convertible Display System) technology makes maintenance easy and offers flexibility for future upgrades. To upgrade the panel size, replace the display module, or to upgrade the system performance, replace the computer module.







Flexible Design and Easy Installation

Exclusive adjustable mounting bracket with thickness adjustment setting and two panel-locking methods (panel or boss type) make modular panel PC easier and more convenient to integrate into industrial machinery.

Patent No.: D224544, D224545, I802427

Integrated Structure

As standard, the open frame modular panel pc can be deployed in equipment machines, but remove the mounting bracket and it becomes a standalone panel pc for use with a VESA mount or in a 19" rack.





Strong, Reliable and Durable

Meets the requirements for HMI applications in harsh industrial environments: IP65 waterproof and dustproof front panel, fanless, wide temperature (0–60°C), and wide voltage (9–48 VDC).







CO-W121C Specifications

Model Name	CO-W121C
Display	
LCD Size	• 21.5" (16:9)
Resolution	• 1920 x 1080
Brightness	• 300 cd/m2
Contract Ratio	• 5000 : 1
LCD Color	• 16.7M
Pixel Pitch	• 0.24825 (H) x 0.24825 (V) mm
Viewing Angle	• 178 (H) / 178 (V)
Backlight MTBF	• 50,000 hrs
Touch Screen	
Touchscreen Type	Projected Capacitive Touch
Physical	
Dimension (W x D x H)	• 550 x 343.7 x 63.3
Weight	• 7.16 kg
Construction	One-piece and Slim Bezel Design
Mounting Type	• Flat / Standard / VESA / Rack Mount
Mounting Bracket	Pre-installed Mounting Bracket with Adjustable Design (Support 11 different stages of adjustment)
Protection	
Ingress Protection	Front Panel IP65 Compliant * According to IEC60529
Environment	
Operating Temperature	Ambient with Air flow: 0°C to 60°C (with Industrial Grade Peripherals)
Storage Temperature	• -20°C to 60°C
Humidity	• 80% RH @ 50°C (Non-condensing)
EMC	• CE, UKCA, FCC, ICES-003 Class A
ЕМІ	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 Series 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 204-Pin SO-DIMM Socket • Supports up to 8GB (un-buffered and non-ECC)	
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	
1/0		
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	•1x SIM Socket	
mSATA	• 1x mSATA Socket (SATA 3.0, Shared by Mini-PCIe Socket)	
Expansion		
Mini PCI Express	• 2x Full-size Mini-PCle 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	



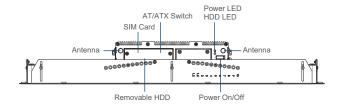
OSD Function LCD CN (OTL Brightness Down Clear CNOS Switch Ix Reset Button Power Power Switch Ix Reset Button Power Switch Ix Power Switch Power Mode Switch Ix Power Switch Power Mode Switch Ix Power Switch Power Mode Switch Ix ACT/ATX Mode Switch Power Mode Switch Ix Cyptional AC/ISC 129/Joh 0000 or 249/Joh 12000 Power Adapter (Optional) Ix Optional AC/ISC 129/Joh 0000 or 249/Joh 12000 Power Adapter (Optional) Ix Optional AC/ISC 129/Joh 0000 or 249/Joh 12000 Physical Design Ix Optional AC/ISC 129/Joh 0000 or 249/Joh 12000 Mechanical Construction Ix Educate Aluminum with Heavy Duty Metal Physical Design Ix Educate Aluminum with Heavy Duty Metal Reliability & Protection Protection Place Design Mounting Ix Particles Design Mounting Ix Protection Place Design Protection Place Design Ix Protection Place			
Power Switch	OSD Function	LCD On/Off, Brightness Up, Brightness Down	
Power Switch 1st Power Switch 1st Power Switch 1st Power Switch 1st Power Mode Switch 1st Power Input Island Input I	Clear CMOS Switch	1x Clear CMOS Switch	
Power Mitch Power Mitch Power Mitch Power Input Power Adapter (Optional) Power On/Off Power Adapter (Optional) Power On/Off Powe	Reset Button	1x Reset Button	
Power Input	Power		
Power Input	Power Switch	• 1x Power Switch	
Power Adapter (Optional) - ix Remote Power On/Off - ix Remote Power On/Off Connector, 2-pin Terminal Block Physical Dimension (W x D x H) - 2045 x 149 x 41.5 mm Weight Information - 149kg Mechanical Construction - Extruded Aluminum with Heavy Duty Metal Physical Design - Jumper-less Design - Protection Range: 51-58V - Protection Protection - Protection Range: 51-58V - Protection Type: shuf down operating voltage, re-power on at the present level to recover Over Current Protection - 15A CMOS Battery Backup - Super-Cap 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 - Antibient with Air Flow: -40°C to 70°C (with Extended Temperature Peripherals) Storage Temperature - 295 RH @ 75°C (Non-condensing) Shock - Operating, 5 Grms, 141f-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27) Vibration - Operating, 5 Grms, 5-500 Itz, 3 Axes (w/ SSD, according to IEC60068-2-27) Vibration - CEL UKCA, F.CC, CES-003 Conducted & Radiated: Class A Flows Schools of History - EN/SE NIN ICC 60000-3-2 Harmonic current emissions: Class A Flows Schools - EN/SE NIN ICC 60000-3-2 Harmonic current emissions: Class A Flows Schools - EN/SE NIN ICC 60000-3-2 Harmonic current emissions: Class A Flows Schools - EN/SE NIN ICC 6	Power Mode Switch	• 1x AT/ATX Mode Switch	
### Remote Power On/Off Connector, 2-pin Terminal Block Physical	Power Input	• 1x 3-pin Terminal Block Connector with Power Input 9~48VDC	
Physical Dimension (W x D x H)	Power Adapter (Optional)	• 1x Optional AC/DC 12V/5A 60W or 24V/5A 120W	
Microsoft Windows** Windows*** Windows** Windows* Windo	Remote Power On/Off	• 1x Remote Power On/Off Connector, 2-pin Terminal Block	
Weight Information - 1.49 kg Mechanical Construction - Extruded Aluminum with Heavy Duty Metal Physical Design - Fanhass Design - Jumper-less Design Mounting - Wall / VESA / CDS / DIN Mounting Reliability & Protection - 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 - Super-Cap Integrated for CMOS Battery Maintenance-free Operation MTBF - Time: 294,817 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 - 99% RH @ 75°C (Non-condensing) Shock - Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27) Vibration - Operating, 50 Grms, 45-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-27) Vibration - CE, UKCA, FCC, ICES-003 Class A - EN/JSS EN 150332 Conducted & Radiated: Class A - EN	Physical		
Physical Design Fantess Design Jumper-less De	Dimension (W x D x H)	• 204.5 x 149 x 41.5 mm	
Physical Design	Weight Information	• 1.49kg	
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, 5 Grms, 148f-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27) Vibration -CE, UKCA, FCC, ICES-003 Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic current emissions: Class A EN/BS EN IEC6 61000-3-2 Harmonic curre	Mechanical Construction	Extruded Aluminum with Heavy Duty Metal	
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 959% 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 -EN/BS EN 15C0 32 Conducted & Radiated: Class A -EN/BS EN 15C0 32 Conducted & Radiated: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A -EN/BS EN 15C0 61000-32 Harmonic current emissions: Class A	Physical Design		
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 - Supports by project Environment Operating Temperature - Ambient with Air Flow: -40°C to 70°C (with Extended Temperature Peripherals) Storage Temperature40°C to 85°C Relative humidity - 95% RH @ 75°C (Non-condensing) Shock - Operating, 5 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 - EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A	Mounting	Wall / VESA / CDS / DIN Mounting	
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 Super-Cap 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, 5 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 IEC61003-3-2 Natronoic Current emissions: Class A -EN/BS EN IEC61003-3-3 Voltage fluctuations & flicker	Reliability & Protection		
Protection Type: shut down operating voltage, re-power on at the present level to recover 15A CMOS Battery Backup	Reverse Power Input	• Yes	
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 EM/BS EN 150032 Conducted & Radiated: Class A -EN/BS EN 15C032 Conducted & Radiated: Class A	Over Voltage Protection		
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 Temperature40°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 EN/IS EN 55032 Conducted & Radiated: Class A -EN/ISS EN 55032 Conducted & Radiated: Class A -EN/ISS EN IEC 61000-3-2 Harmonic current emissions: Class A -EN/ISS EN IEC 61000-3-3 Voltage fluctuations & flicker	Over Current Protection	• 15A	
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 - EN/BS EN 55032 Conducted & Radiated: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 1EC 61000-3-3 Voltage fluctuations & flicker	CMOS Battery Backup	SuperCap Integrated for CMOS Battery Maintenance-free Operation	
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 -CISPR 32 Conducted & Radiated: Class A -EN/BS EN 55032 Conducted & Radiated: Class A -EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A -EN/BS EN 1EC 61000-3-3 Voltage fluctuations & flicker	MTBF	• Time: 294,617 hours	
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 - EN/BS EN 55032 Conducted & Radiated: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN IEC 61000-3-3 Voltage fluctuations & flicker	Operating System		
Environment Operating Temperature	Microsoft® Windows®	• Windows®10	
Operating Temperature • Ambient with Air Flow: -40°C to 70°C (with Extended Temperature Peripherals) • -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 • EN/BS EN 55032 Conducted & Radiated: Class A • EN/BS EN 55032 Conducted & Radiated: Class A • EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A • EN/BS EN 61000-3-3 Voltage fluctuations & flicker	Linux	Supports by project	
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 - EN/BS EN 55032 Conducted & Radiated: Class A - EN/BS EN 55032 Conducted & Radiated: Class A - EN/BS EN 1EC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN 61000-3-3 Voltage fluctuations & flicker	Environment		
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 • 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	Operating Temperature	Ambient with Air Flow: -40°C to 70°C (with Extended Temperature Peripherals)	
Shock Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27) Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) EMC CE, UKCA, FCC, ICES-003 Class A 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	Storage Temperature	• -40°C to 85°C	
Vibration Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) EMC CE, UKCA, FCC, ICES-003 Class A 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	Relative humidity	• 95% RH @ 75°C (Non-condensing)	
EMC • CE, UKCA, FCC, ICES-003 Class A • 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	Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)	
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	Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)	
• 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	EMC	• CE, UKCA, FCC, ICES-003 Class A	
	EMI	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	



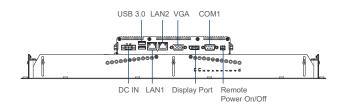
EMS	 EN/IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 3 V/m EN/IEC 61000-4-4 EFT: AC Power: 1 kV; DC Power: 0.5 kV; Signal: 0.5 kV EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV EN/IEC 61000-4-6 CS: 3V EN/IEC 61000-4-8 PFMF: 50 Hz, 1A/m EN/IEC 61000-4-11 Voltage Dips & Voltage Interruptions: 0.5 cycles at 50 Hz
Safety	• UL, cUL, CB, IEC, EN62368-1

CO-W121C/P1101 External Layout

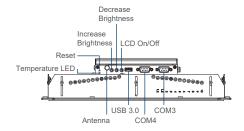
Front I/O



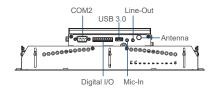
Rear I/O



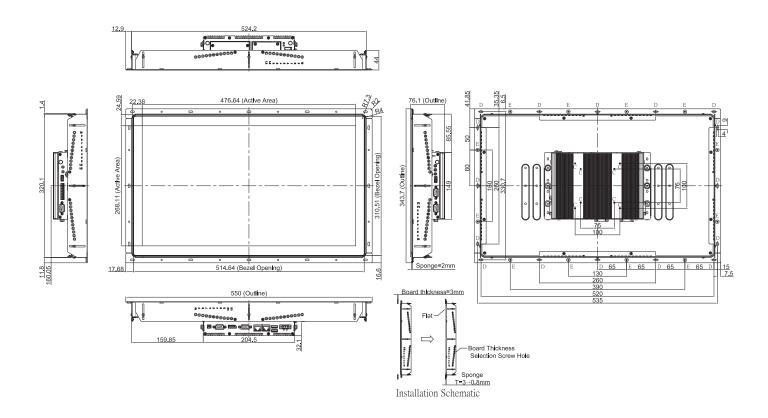
Left I/O



Right I/O



CO-W121C/P1101 Dimensions





Ordering Information

Available Models

Model No.	Description
CO-W121C-R10/P1101-E50-R10	21.5" TFT-LCD Full HD 16:9 Open Frame Display Modular Panel PC with Intel Atom E3950 Quad Core Processor and P-Cap. Touch
CO-W121C-R10/P1101-N42-R10	21.5" TFT-LCD Full HD 16:9 Open Frame Display Modular Panel PC with Intel Pentium N4200 Quad Core Processor and P-Cap. Touch

Model Configuration

	CO-W121C	P1101-E50	P1101-N42
CO-W121C/P1101-E50	V	V	
CO-W121C/P1101-N42	V		V

V : Compatible

Package Checklist

• CO-W121C/P1101 Series Panel PC x 1	Power Terminal Block Connector (Female) x 1
DIO Terminal Block Connector (Female) x 1	- Screw Pack x 1
Thermal Pad (for CPU Thermal Block) x 1	Remote Power On/Off Terminal Block Connector 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