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.

Key Features

- 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

Certifications









Power Efficient & Multi-Display

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







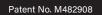


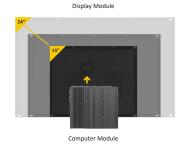
Rich I/O for Flexible Expansion

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 |
| Contrast 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) |
| Power | |
| Power Consumption | • 24.8W (Max.) |
| 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 | |



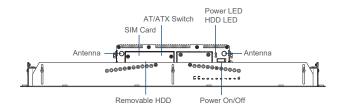
| OSD Function LCD CN (OTL Brightness Down Clear CNOS Switch Ix Reset Button Power Power Switch Ix Reset Button Power Switch Ix Power Switch Power Mode Switch Ix Power Switch Power Mode Switch Ix Power Switch Power Mode Switch Ix ACT/ATX Mode Switch Power Injust Ix Deptical ACT/SC 129/30 A 000 or 249/36 A 12690 Power Adapter (Optional) Ix Optional ACT/SC 129/30 A 000 or 249/36 A 12690 Projects Ix Deptical Design Ix Optional ACT/SC 129/30 A 000 or 249/36 A 12690 Physical Design Ix 249/36 Mechanical Construction Ix Estatuted Aluminum with Heavy Duty Metal Physical Design Ix Partices Design Mounting Ix Partices Design Mounting Ix Partices Design Mounting Ix Partices Design Mounting Ix Partices Design Projection Types that down operating voltage, re-power on at the present fewel to recover Over Current Production Ix Projection Types that down operating voltage, re-power on at the present fewel to recover Operating System Ix Times 24,6417 hours </th <th></th> <th></th> | | | |
|--|--------------------------|--|--|
| 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 In | 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 NILEG (50000-3-2) Harmonic current emissions: Class A Flows Schools Schools of History - EN/SE NILEG (50000-3-2) Harmonic current emissions: Class A Flows - EN/SE NILEG (50000-3-2) Harmonic current emissions: Class A Flows - EN/SE NILEG | 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 (WxDxH) | • 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 IEC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN IEC 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 | |
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| 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 | |



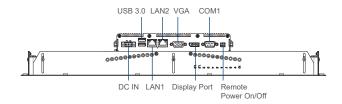
| EMS | EN/IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 3 V/m EN/IEC 61000-4-4 EFT: AC Power: 1 kV; DC Power: 0.5 kV; Signal: 0.5 kV EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV EN/IEC 61000-4-6 CS: 3V EN/IEC 61000-4-8 PFMF: 50 Hz, 1A/m EN/IEC 61000-4-11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

CO-W121C/P1101 External Layout

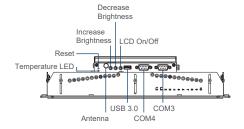
Front I/O



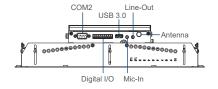
Rear I/O



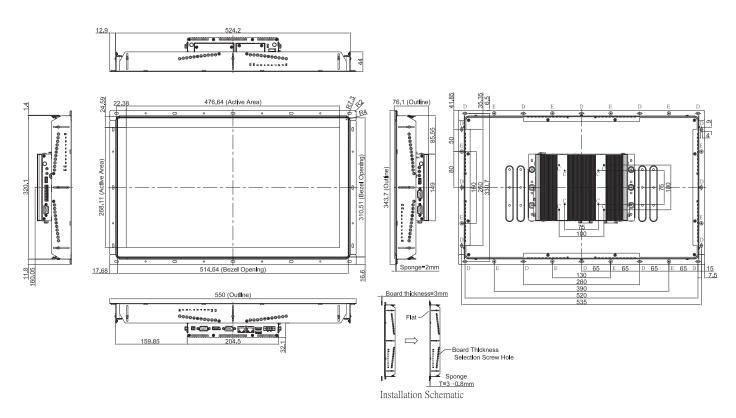
Left I/O



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 |