CO-119C/P1201 Series

19" TFT-LCD Open Frame Panel PC with Intel® Elkhart Lake Atom® x6000E Series Processor



ALL-NEW OPEN FRAME PANEL PC

| CO-100/P1000 Series Fits Any Machine Perfectly |

Overview

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The CO-100/P1201 is an open-frame panel PC with an Intel® Atom® (Elkhart Lake) processor, rich native I/O interfaces (GbE LAN, USB 3.2, COM, and DIO), expansion slots (Mini PCIe and M.2 Key E Type 2230), and CFM (to add PoE and IGN). The major highlight, especially for equipment manufacturers, is the exclusive adjustable mounting bracket (patent pending) that provides thickness adjustment and two panel-locking methods that make installation more convenient and reduce the need for customization during integration. The design fits cabinets of different materials and thicknesses for consistency and its robust design takes into account the requirements of HMI in harsh industrial environments.

- 19" TFT-LCD with Projected Capacitive Touch
- Intel[®] Elkhart Lake Atom[®] x6425E/x6211E Processor
- Ix DDR4 SO-DIMM
- Designed with Adjustable Mounting Bracket
- Support Flat / Standard / VESA / Rack Mount
- Front Panel IP65 Compliant
- Wide Operating Temperature
- Cincoze Patent CDS Technology Support

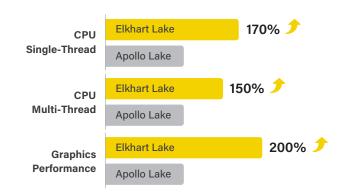


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CO-119C/P1201 Series

Next-gen Performance

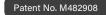
The CO-100/P1201 supports up to an Intel® Atom® x6425E (Elkhart Lake) 4-core processor, with 1.7 times the single-thread performance, 1.5 times the multi-thread performance, and double the graphics performance of the previous-generation Apollo Lake processor. Up to 32 GB of 3200 MHz DDR4 is supported.





Patented CDS Technology

Convertible Display System (CDS), the patented technology that connects the CO-100 display module to the P1201 embedded computer, has the advantages of easy maintenance in the field and easy future upgrades because the screen size can be changed and performance can be improved by only replacing a single part, rather than the whole system, saving on upgrade costs.



Easy to Install

The exclusive adjustable mounting bracket has flexible thickness adjustment and supports panel- and boss-type locking methods for industrial machines with flat mount or standard mount, making integration easier and more convenient.

Patent No.: D224544, D224545, I802427





Integrated Structure

The flexible and reliable design of the open-frame architecture enables deployment in equipment machines, and after removing the mounting bracket can be installed directly using the VESA mount for standalone use, or installed in a 19" rack for display function.

Robust, Safe, Reliable

The CO-100/P1201 series has industrial-grade protections, including fanless design, wide operating temperature (0 to 60°C), wide-range DC power input (9 to 48 VDC), and IP65 front panel dust and water resistance, to face harsh and dangerous use environments such as field-side HMI applications.



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CO-119C Specifications

Model Name	CO-119C
Display	
LCD Size	• 19" (5:4)
Resolution	• 1280 x 1024
Brightness	• 350 cd/m2
Contract Ratio	- 1000 : 1
LCD Color	• 16.7M
Pixel Pitch	• 0.294 (H) × 0.294 (V)
Viewing Angle	• 170 (H) / 160 (V)
Backlight MTBF	• 50,000 hrs (LED Backlight)
Touch Screen	
Touchscreen Type	Projected Capacitive Touch
Physical	
Dimension (W x D x H)	• 472.8 x 397.5 x 63mm
Weight	• 6.91kg
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	• 0°C - 50°C (with Industrial Grade peripherals; Ambient with air flow)
Storage Temperature	• -20°C to 60°C
Humidity	• 80% RH @ 50°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

P1201 Specifications

Model Name	P1201
System	
Processor	 Intel® Atom® x6425E Processor (1.5M Cache, up to 3.00 GHz, 12W) Intel® Atom® x6211E Processor (1.5M Cache, up to 3.00 GHz, 6W)
Memory	1x DDR4 SO-DIMM Socket Supports DDR4 3200MHz Memory Up to 32GB (un-buffered and non-ECC)
BIOS	AMI BIOS
Graphics	
Graphics Engine	Integrated Intel® UHD Graphics
Maximum Display Output	Supports Triple Independent Display
CDS	• 1x CDS Connector (1920 x 1080 @60Hz)
DP	 1x DisplayPort Connector (4096 x 2304 @ 60Hz,According to CPU Specifications) * Verified maximum resolution: 3840 x 2160 @60Hz
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® I210 - GbE2: Intel® I210
СОМ	3x RS-232/422/485 with Auto Flow Control, DB9
USB	• 3x 10Gbps USB 3.2 Gen2, Type A • 1x 480Mbps USB 2.0, Type A
DIO	• 8x Isolated DIO (4x DI/4x DO), 10-Pin Terminal Block
Storage	
SSD/HDD	• 1x 2.5" Front Accessible SATA HDD/SSD Drive Bay (SATA3.0)
mSATA	1x mSATA Socket (SATA 3.0, shared by Mini-PCIe socket)
Expansion	
Mini PCI Express	1x Full-size Mini-PCIe Socket
SIM Socket	• 1x SIM Socket
M.2	• 1x M.2 Key E Type 2230 Socket, Support Wireless Module
CFM (Control Function Module) Interface	 1x CFM IGN Interface for optional CFM-IGN Module Expansion 1x CFM PoE Interface for optional CFM-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

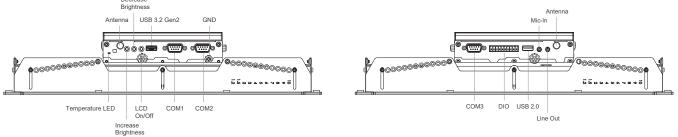
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Watchdog Timer . OSD Button . Internal Speaker .	Support 0.2sec Instant Reboot Technology Software Programmable Supports 256 Levels System Reset LCD On/Off, Brightness Up, Brightness Down AMP 2W + 2W Power LED, HDD LED, Temperature LED
OSD Button Internal Speaker	LCD On/Off, Brightness Up, Brightness Down AMP 2W + 2W
Internal Speaker	• AMP 2W + 2W
	Power LED, HDD LED, Temperature LED
Status LED Indicator	
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
Remote Power LED	• 1x Remote Power LED, 2-pin Terminal Block
Operating System	
Windows	• Windows® 10
Linux	Supports by project
Physical	
Dimension (W x D x H)	• 204.5 x 149 x 41.5 mm
Weight Information	• 1.54 kg
Mechanical Construction	Extruded Aluminum with Heavy Duty Metal
Mounting	• Wall / VESA / CDS / DIN Rail
,	 Fanless Design Jumper-less Design
Reliability & Protection	
Reverse Power Input Protection	• Yes
0	 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	• 283,091 Hours - Database: Telcordia SR-332 Issue3, Method 1, Case 3
Environment	
Operating Temperature	 -40°C to 70°C * PassMark BurnInTest: 100% CPU, 2D/3D Graphics (without thermal throttling) * 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
Relative Humidity	• 95%RH @ 70°C (non-Condensing)
Shock	Operating, 50 Grms (w/ SSD, according to IEC60068-2-27)
	 Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) Operating, 1 Grms, 10-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-6)
	• CE, UKCA, FCC, ICES-003 Class A • EN IEC 61000-6-4, EN IEC 61000-6-2(24VDC Input Only)

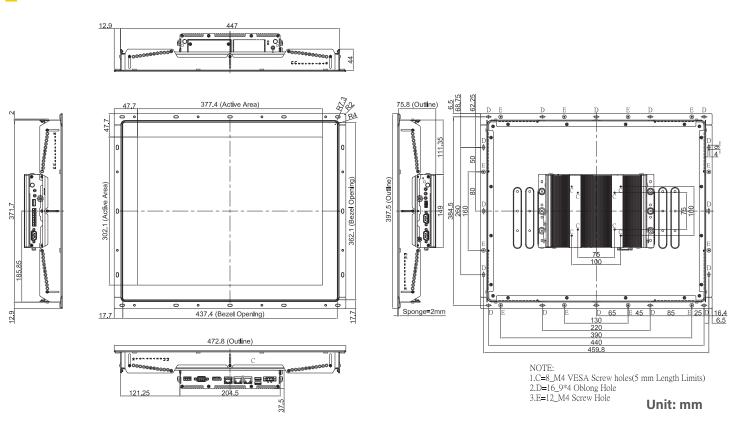
EMI	 CISPR 32 Conducted & Radiated: Class A EN/BS EN 55032 Conducted & Radiated: Class A EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A EN/BS EN61000-3-3 Voltage fluctuations & flicker FCC 47 CFR Part 15B, ICES-003 Conducted & Radiated: Class A
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Safety	• UL, cUL, CB, IEC/EN 62368-1

CO-119C/P1201 External Layout

Front I/O IGN Setting Switch Power LED HDD LED Reset Switch Antenna Ante © _ _ **_ _ _** ₽°] **0**0000000000 000000000000 SIM Card Slot Front Accessible 2.5" HDD Tray AT/ATX Switch Power On/Off Clear CMOS Rear I/O Remote Power On/Off USB 3.2 Gen2 DC IN DisplayPort đ **₽**0000000000 0000000000000 LAN1 VGA LAN2 Remote Power LED Left I/O Right I/O Decrease Brightness Antenna



CO-119C/P1201 Dimensions



Ordering Information

Available Models

Model No.	Description
CO-119C-R10/P1201-X6425E-R10	19" TFT-LCD SXGA 5:4 Open Frame Display Modular Panel PC with Intel Atom x6425E Quad Core Processor
CO-119C-R10/P1201-X6211E-R10	19" TFT-LCD SXGA 5:4 Open Frame Display Modular Panel PC with Intel Atom x6211E Dual Core Processor

Model Configuration

	CO-119C	P1201-X6425E	P1201-X6211E
CO-119C/P1201-X6425E	V	V	
CO-119C/P1201-X6211E	V		V

V : Compatible

Package Checklist

CO-119C/P1201 Series Panel PC x 1	Power Terminal Block Connector (Female) x 1
Thermal Pad (for CPU Thermal Block) x 1	Screw Pack x 1
DIO Terminal Block Connector (Female) x 1	Remote Power On/Off Terminal Block Connector x 1

Optional Modules and Accessories

Model No.	Description
CFM-PoE02	CFM Module with PoE Control Function, Individual Port 25.5W
CFM-IGN101	CFM Module with Power Ignition Sensing Control Function, 12V/24V Selectable (43 x 36 mm)
URM01	CFM Module with Power Ignition Sensing Control Function, 12V/24V Selectable (43 x 36 mm)
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



Distributore per l'Italia: Contradata Milano S.r.l.

Via Solferino 12 - 20900 Monza (MB) - Italy Tel: (+39) 039-230.14.92 Email: info@contradata.it

www.contradata.it