CAPTEC

cincoze™

CV-210C/P1301

10.1” Rugged Industrial Panel PC

Key Benefits

- **Intel Alder Lake-N Processing** with Core i3-N305, Processor N97 or Atom x7425E options
- **10.1-inch WXGA Display** with projected capacitive touch and anti-glare coating
- **Flexible Connectivity** with dual 2.5GbE LAN, USB 3.2 and M.2 expansion
- **Modular CDS Architecture** for simplified maintenance and future upgrades
- **IP66 Front Panel Protection** with wide-range 9–48 VDC power input



Overview

The CV-210C/P1301 is a modular 10.1-inch industrial panel PC powered by Intel Alder Lake-N processors, designed for industrial HMI and process visualisation applications. Featuring a WXGA projected capacitive touchscreen with anti-glare coating, it provides clear, responsive operation in demanding environments. Dual 2.5GbE LAN, versatile I/O and M.2 expansion enable flexible system integration, while the IP66-compliant front panel and 9–48 VDC input support industrial deployment. Its modular CDS architecture simplifies maintenance and future upgrades.

Certifications

IP66



CPU Single-Thread Performance Up to 1.30X Improvement



CPU Multi-Thread Performance Up to 1.09X Improvement



TRIED, TESTED & **TRUSTED**

CV-210C Specifications

Model Name	CV-210C
Display	
LCD Size	▪ 10.1" (16:10)
Max. Resolution	▪ 1280x800
Brightness (cd/m2)	▪ 500
Contrast Ratio	▪ 800 : 1
LCD Color	▪ 16.7M
Pixel Pitch (mm)	▪ 0.1695 (H) x 0.1695 (V)
Viewing Angle (H-V)	▪ 178 / 178
Backlight LED Life Time	▪ 50,000 hrs (LED Backlight)
Touch Screen	
Touch Type	▪ Projected Capacitive
Anti-Glare	▪ V
Wet Touch Tracking	▪ V
Physical	
Dimension (W x D x H)	▪ 259.3 x 179.9 x 63.4 mm
Weight Information	▪ 1.45 kg
Mechanical Construction	▪ Die-Casting Flat Surface
Power	
Power Consumption	▪ 6.45 W (Typ.)
Environment	
Front Panel Protection	▪ IP 66 Compliant
Operating Temperature	▪ -20°C - 70°C (-4°F to 158°F) - With Industrial Grade peripherals; Ambient with air flow
Storage Temperature	▪ -40°C - 85°C (-40°F to 185°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
Industrial Environment	▪ EMC: - EN/BS/IEC 61000-6-4: 2019 Class A - EN/BS/IEC 61000-6-2: 2019

Railway	▪ EMC: EN 50155: 2021 Clause 4.4.6, 13.4.9 (w/ M1101 only) - EN 50121-1 : 2017 - EN 50121-3-2: 2016 + A1: 2019

P1301 Specifications

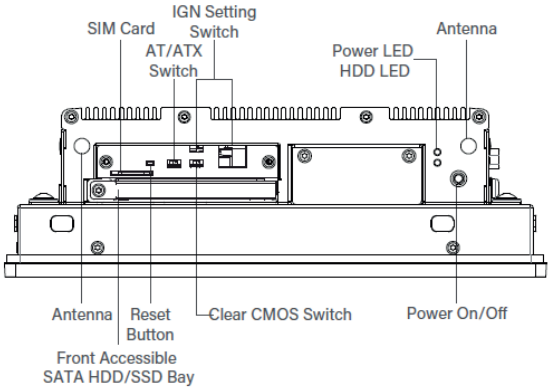
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Industrial Environment	▪ EMC: - EN/BS/IEC 61000-6-4: 2019 Class A - EN/BS/IEC 61000-6-2: 2019

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
Remote Power LED	▪ 1x Remote Power LED, 2-pin Terminal Block
Max. Power Consumption	▪ i3-N305 CPU: 48.59W ▪ N97 CPU: 34.04W - Test conducted with CPU, 1x RAM, and 1x storage - 100% load during burn-in testing
Inrush Current (Peak)	▪ i3-N305 CPU: 5.538 A@12V ▪ N97 CPU: 5.242 A@12V
Operating System	
Microsoft® Windows®	▪ Windows®11, Windows®10
Linux	▪ Ubuntu Desktop 22.04 LTS
Physical	
Dimension (W x D x H)	▪ 204.5 x 149 x 46.5mm
Weight	▪ 1.57 kg
Mechanical Construction	▪ Extruded Aluminum with Heavy Duty Metal
Mounting	▪ Wall / VESA / CDS / DIN Rail
Physical Design	▪ Fanless Design ▪ Jumper-less Design
Reliability & Protection	
Reverse Power Input	▪ Yes
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
CMOS Battery Backup	▪ SuperCap Integrated for CMOS Battery Maintenance-free Operation
MTBF	▪ 306,338 Hours - Database: Telcordia SR-332 Issue3, Method 1, Case 3
Environment	
Operating Temperature	▪ Intel® Processor N97: -20°C to 70°C (-4°F to 158°F) ▪ Intel Atom® x7425E : -40°C to 70°C (-40°F to 158°F) ▪ Intel® Core™ i3-N305: -20°C to 60°C (-4°F to 140°F) * PassMark Burn-In Test: 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 (-40°F to 185°F)
Relative Humidity	▪ Intel® Processor N97 / Atom® x7425E: 95%RH @ 70°C (non-Condensing) ▪ Intel® Core™ i3-N305: 95%RH @ 60°C (non-Condensing)
Shock	▪ Operating, 50 Grms, Half-sine 11 ms Duration (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 ▪ EN61000-6-4, EN61000-6-2 @ DC-input 24V

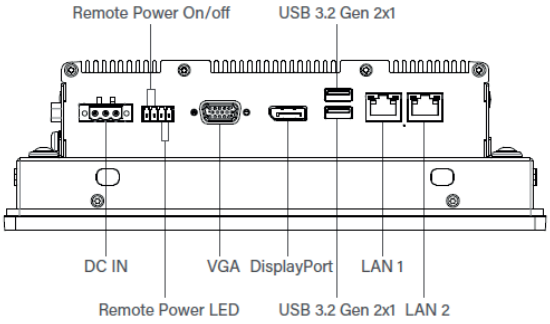
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EMS	▪ EN/IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV ▪ EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 10 V/m ▪ EN/IEC 61000-4-4 EFT: AC Power: 2 kV; DC Power: 1 kV; Signal: 1 kV ▪ EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV ▪ EN/IEC 61000-4-6 CS: 10V (**Compliant with the standard when utilizing shielded ethernet cable.) ▪ 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

CV-210C/P1301 External Layout

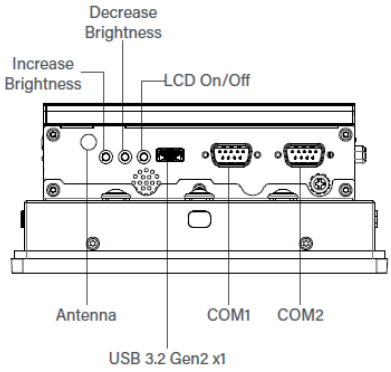
Front I/O



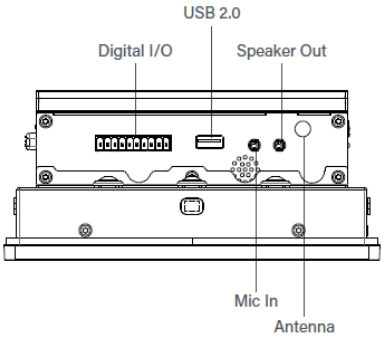
Rear I/O



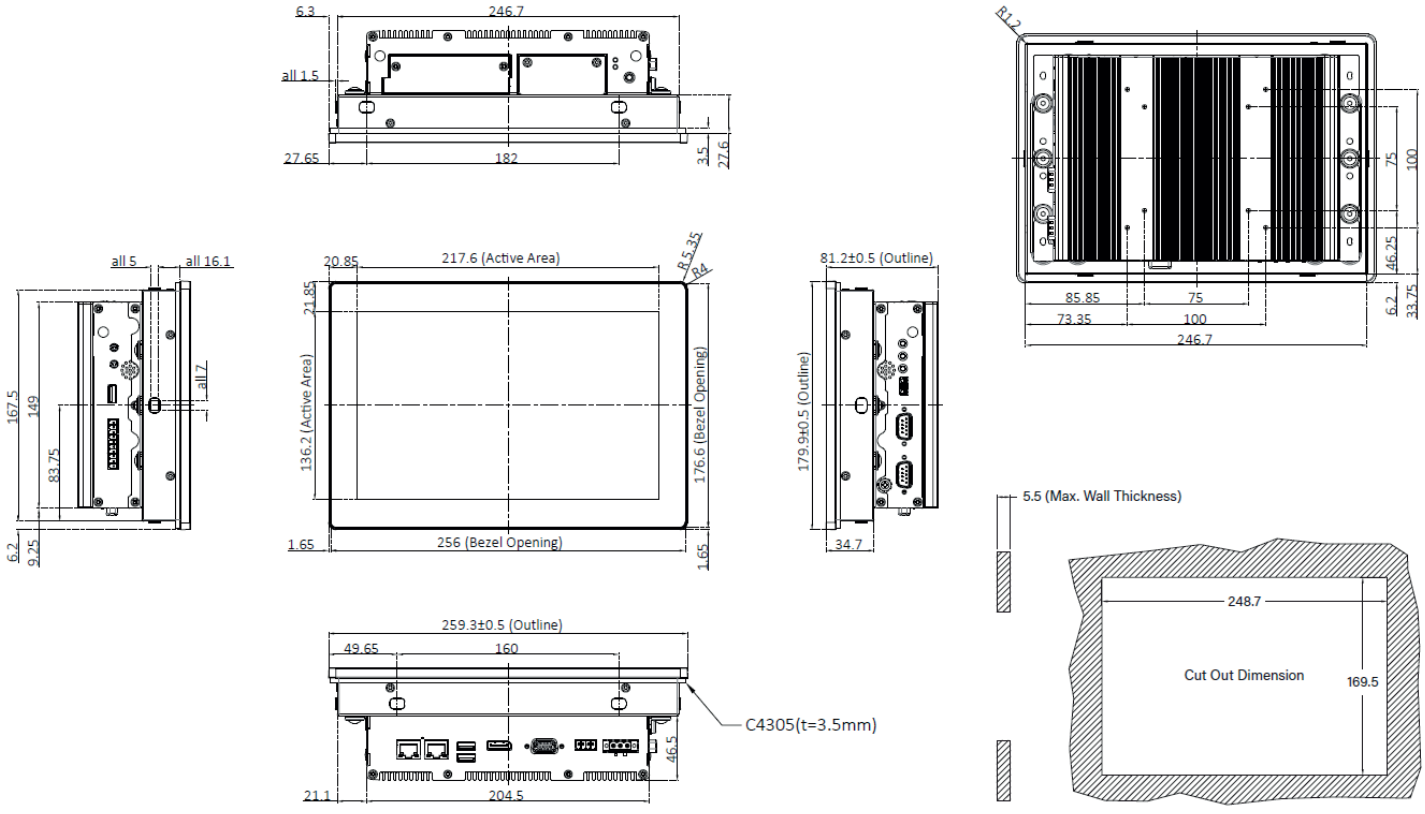
Left I/O



Right I/O



CV-210C/P1301 Dimensions



Unit: mm

Ordering Information

Available Models

Model No.	Description
CV-210C-R10/P1301-N97-R10	10.1" TFT WXGA 16:10 Slim Bezel Panel PC with Intel® Processor N97 Quad-Core Embedded Computer, Projected Capacitive Touch, and AG Coating
CV-210C-R10/P1301-X7425E-R10	10.1" TFT WXGA 16:10 Slim Bezel Panel PC with Intel® Atom® x7425E Quad-Core Embedded Computer, Projected Capacitive Touch, and AG Coating
CV-210C-R10/P1301-i3-R10	10.1" TFT WXGA 16:10 Slim Bezel Panel PC with Intel® Core i3-N305 Octa-Core Embedded Computer, Projected Capacitive Touch, and AG Coating

Model Configuration

	CV-210C	P1301-N97	P1301-X7425E	P1301-i3
CV-210C/P1301-N97	V	V	--	--
CV-210C/P1301-X7425E	V	--	V	--
CV-210C/P1301-i3	V	--	--	V

V : Compatible

Package Checklist

▪ CV-210C/P1301 Series Panel PC x1	▪ Power Terminal Block Connector x 1
▪ Thermal Pad (for CPU Thermal Block) x 1	▪ Remote Function Terminal Block Connector x 1
▪ Screw Pack x 2	▪ DIO Terminal Block Connector x 1
▪ Panel Mounting Kit x 6	▪ M.2 Key B Type 3052 to 3042 Adapter Bracket 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
GST120A24-CIN	Adapter AC/DC 24V 5A 120W, GST120A24-CIN, wide temp (-30°C ~ +70°C), Level VI
GST220A24-CIN	Adapter AC/DC 24V 9.2A 220W with 3pin Terminal Block Plug 5.0mm Pitch, with TUBES, Level VI

Delivering end-to-end, like no one else.
Bring us your challenge & experience the difference.

Corporate & EMEA Headquarters
Fareham, Hampshire, UK
+44 (0) 1489 866 066
sales-emea@captec-group.com

Subsystems Engineering UK
Farnborough, Hampshire, UK
+44 (0) 1252 512 919
sales-cse@captec-group.com

Canada Headquarters
Cambridge, ON, Canada
+1 (519) 650 4000
sales-canada@captec-group.com

USA Headquarters
Buffalo, NY, USA
+1 (519) 650 4000
sales-usa@captec-group.com

captec-group.com

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