

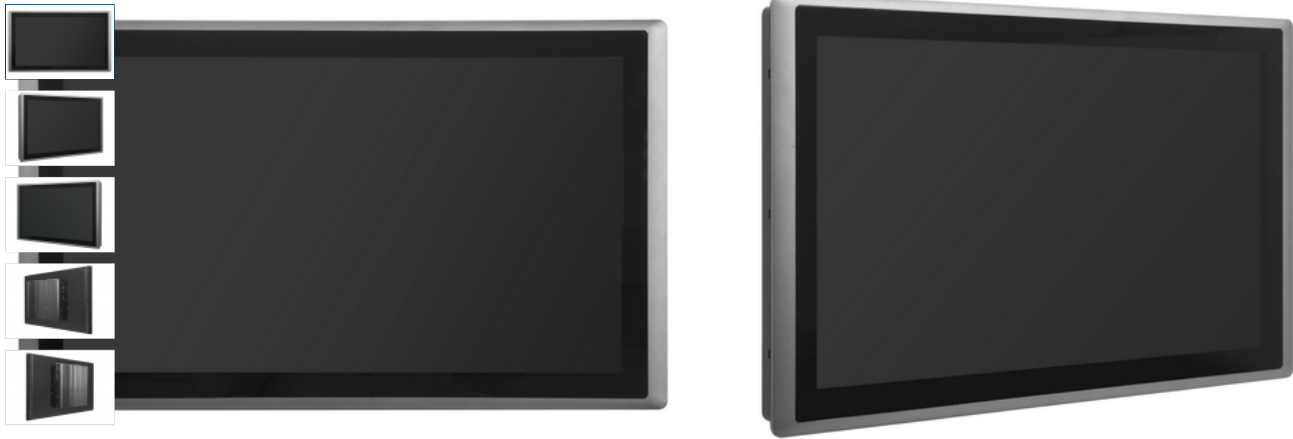
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CV-W121 / P2002

21.5" 6th Gen. Intel® Core™ Processor U Series Fanless Touch Panel PC with CFM & CDS Technology

PRODUCTS FEATURES

- 21.5" Full HD TFT-LCD with Resistive 5-wire / Projected Capacitive Touch
- Onboard Intel® 6th Generation Core™ Processor U Series (15W)
- 2x DDR4 SO-DIMM Socket, Support Up to 32 GB
- Integrated Intel® HD Graphics 520 Support Triple Display
- 2x 2.5" SATA HDD Bay, 1x mSATA and 1x CFast Socket
- IP65 Compliant Aluminum Die-Cast Front Frame
- 2x Full-size Mini-PCle Socket for Wireless and I/O Expansion
- Support CFM Technology for PoE and Ignition Sensing Functions
- Rich I/O (2x GbE LAN, 6x COM, 5x USB, 16x Isolated DIO)
- Support Instant Reboot Technology
- Wide Operating Temperature (0°C to 60°C)
- SuperCap integrated for CMOS Battery Maintenance-Free

DATASHEET

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OVERVIEW

Cincoze CV-W121/P2000 Series is a 21.5" high performance fanless and jumperless rugged touch panel PC powered by Intel® 6th generation Core™ processor U series, offering more computing power, faster data processing and a 40% boost to graphics performance, while consuming only 15W of power. ^

The CV-W121/P2000 Series supports CFM (Control Function Module) Technology, Cincoze own defined interface with integrated power boost and control signal

that allows you to extend PoE and ignition sensing functions with additional CFM boards. In addition Cincoze offers a full series of Mini-PCIe Expansion I/O Card (MEC) for adding extra I/O through the universal bracket. The CV-W121/P2000 Series comes with the slim version, and the expandable version (PCI/PCIe card expansion) made with outstanding modular design concept for the greatest flexibility to fulfill the versatile industrial applications.

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The CV-W121/P2000 Series is a truly rugged computing system supporting wide operating temperature from 0°C to 60°C, wide range DC input from 9V to 48V, and various kinds of industrial protections. Moreover the instant reboot circuit design allows the system to cope with critical power request for factory applications. The CV-W121/P2000 Series has an integrated SuperCap to avoid high downtime cost of replacing CMOS battery and be absolutely maintenance-free.

SPECIFICATION

Model Name		CV-W121/P2002	
Model No.		CV-W121R/P2002	CV-W121C/P2002
Display	LCD Size	21.5" (16:9)	
	Max. Resolution	1920 x 1080	
	Brightness (cd/m ²)	300	
	Contrast Ratio	5000 : 1	
	LCD Color	16.7M	
	Pixel Pitch (mm)	0.24825 (H) x 0.24825 (V)	
	Viewing Angle (H-V)	178 / 178	
Touch	Backlight MTBF	50,000 hrs (LED Backlight)	
	Resistive 5-wire	V	-
	Projected Capacitive	-	V
Processor System	Onboard 6th Intel® Core™ U processors (Skylake) - Intel® Core™ i5-6300U processor (3M Cache, up to 3.00 GHz) - TDP: 15 W - BIOS: AMI 64Mbit SPI BIOS		
Memory	2x DDR4 260-pin SO-DIMM socket, support up to 32 GB (2133MHz, un-buffered and non-ECC type)		
Graphics	Intel® HD Graphics 520 Triple display with 1x VGA, 1x DVI-D and 1x CDS interface		
Audio	Realtek® ALC888-GR High Definition Audio		
I/O Interface	1x VGA (Up to 1920 x 1080 @ 60Hz), DB-15		
	1x DVI-D (Up to 1920 x 1080 @ 60Hz)		
	1x CDS Interface, Compact PCI Connector		
	2x GbE LAN (Support WoL, Teaming, Jumbo Frame and PXE), RJ45 - GbE1: Intel I219LM - GbE2: Intel I210AT		
	2x PoE+ (with Optional CFM PoE Module) - Comply with IEEE 802.3at, Offers Up to 25.5W Per Port		
	6x RS-232/422/485 with Auto Flow Control (Support 5V/12V), DB9		
	4x USB 3.0, Type-A		
	1x USB 2.0, Type-A		
	16x Isolated DIO (8x DI/8x DO), 20-Pin Terminal Block		
	1x Line-out & 1x Mic-in, Phone Jack 3.5mm		
	1x Power On/Off Switch		
	1x Reset Button		
	1x AT/ATX Switch		
	1x Remote Power On/Off Connector, 2-Pin Terminal Block		
1x External FAN Connector, 4-Pin Terminal Block			
Storage	2x 2.5" SATA HDD/SSD Bay, Support RAID 0/1 (Gen3)		
	2x mSATA (One Shared by Mini-PCIe Socket) (Gen2)		
	1x CFast Socket (Gen3)		
Expansion	1x CFM PoE interface		
	1x CFM IGN interface		
	2x Full-size Mini-PCIe Socket		
	1x Universal I/O Bracket		
	1x SIM Socket		
Other Function	4x Antenna Hole		
	Support CDS Technology		
	Support CFM Technology		
	Support Instant Reboot Technology (0.2 sec)		
	Support Power Ignition Sensing (IGN)		
	Support OSD Function (LCD On/Off, Brightness Up, Brightness Down for CDS Display Module)		
	Internal Speaker AMP 2W + 2W		
	SuperCap Integrated		
Power Requirement	Watchdog Timer: Software Programmable Supports 1~255 sec. System Reset		
	Support AT/ATX Power Mode		

	Power Input Voltage 9~48VDC		
	One 3-pin Terminal Block Connector		
	Optional Power Adapter AC/DC 24V/5A 120W		
OVERVIEW	Dimension (WxHxD): 550 x 330.5 x 88.5 mm		
	Weight: 8.48 kg		
Physical	REGISTRATION	ORDERING INFORMATION	DOWNLOADS
	Die-cast Flat Surface		
	Support Panel/Wall /Arm/ VESA / Mounting		
	Fanless Design		
	Jumper-less Design		
Protection	Reverse Power Input Protection		
	Over Voltage Protection: 58V		
	Over Current Protection: 15A		
	ESD Protection: +/-15kV (air), +/-8kV (contact)		
	Surge Protection: 3kW		
Operating System	Windows® 10		
	Windows® 8.1		
	Windows® 7		
	Linux® Kernel 4.4		
Environment	Operating Temperature: 0°C to 60°C (With extended temperature peripherals; Ambient with air flow According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)		
	Storage Temperature: -20°C to 60°C		
	Relative Humidity: 80% RH @ 50°C (Non-condensing)		
	IP Level: IP65 Compliant Front Panel		
	EMC: CE, FCC Class A		

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Available Models

Model No.	Product Description
CV-W121R-R10/P2002-i5-R10	21.5" TFT Full HD 16:9 Panel PC with Resistive 5-wire Touch and Intel 6th Gen. Core i5-6300U Fanless Computer, CFM Interface, CDS Interface
CV-W121C-R10/P2002-i5-R10	21.5" TFT Full HD 16:9 Panel PC with Projected Capacitive Touch and Intel 6th Gen. Core i5-6300U Fanless Computer, CFM Interface, CDS Interface

Package Checklist

√Panel PC x 1
√Utility DVD Driver x 1
√Power Terminal Block Connector x 1
√Screw Pack x 1
√Panel Mounting Kit x 1
√Fan Terminal Block Connector x 1
√DIO Terminal Block Connector x 2
√Power On/Off Terminal Block Connector x 1

Optional Modules

Model No.	Description
CFM-IGN100	CFM Module with Power Ignition Sensing Control Function, 12V/24V Selectable (41 x 35 mm)
CFM-PoE100	PoE Control Function Module, Individual Port 25.5W (50 x 44 x 15 mm) (For CV-100/P2002 only)
MEC-COM-M212-0503	Mini-PCIe Module with 2x COM Ports, 2x Universal Brackets (154 x 17 mm)
MEC-COM-M334-0504	Mini-PCIe Module with 4x RS-232/422/485 Serial Ports, 1x Universal Bracket (154 x 17 mm)
MEC-FIR-M003-0501	Mini-PCIe module with 1x 1394A Port, 2x 1394B Ports, 1x Universal bracket (154 x 17 mm)
MEC-LAN-M002-R1-0511	Mini-PCIe module with 2x LAN Ports, 1x Universal bracket (154 x 17 mm)
MEC-USB-M002-0514	Mini-PCIe module with 2x USB 3.0 Ports, 1x Universal bracket (154 x 17 mm)
RC-E4-01	Riser Card 1 x PCIe x4
RC-PI-101	Riser Card 1 x PCI

Optional Accessories

Model No.	Description
GS120A24-CIN1	Adapter AC/DC 24V 5A 120W with 3pin Terminal Block Plug 5.0mm Pitch
SL2-SL3	US 2 heads power cord, US B type to IEC C13, SVT 18AWG/3C Black 1.8M
SL6-SL3	EU 2 heads power cord, EU G type to IEC C13, H05VV-F 0.75mm2/3G Black 1.8M
QP026-SL3	UK 2 heads power cord, UK I type to IEC C13, H05VV-F 0.75mm2/3G Black 1.8M

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Datasheet

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Manual

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Driver

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P2000 Series Audio Driver (64 bit) (Windows Version)	2016/09/29	
P2000 Series Chipset Driver (Windows Version)	2016/09/29	
P2000 Series UART Driver (Windows Version)	2016/09/29	
P2000 Series Graphics Driver (32 bit) (Windows Version)	2016/09/29	
P2000 Series Graphics Driver (64 bit) (Windows Version)	2016/09/29	
P2000 Series MCU Driver (32 bit) (Windows Version)	2016/09/29	
P2000 Series MCU Driver (64 bit) (Windows Version)	2016/09/29	
P2000 Series Skylake MEI Driver (32 bit) (Windows 7)	2016/09/29	
P2000 Series Skylake MEI Driver (64 bit) (Windows 7)	2016/09/29	
P2000 Series Skylake MEI Driver (64 bit) (Windows 8, Windows 10)	2016/09/29	
P2000 Series LAN Driver (Windows Version)	2016/09/29	
P2000 Series Serial I/O Driver (Windows 7)	2016/09/29	
P2000 Series Serial I/O Driver (Windows 8, Windows 10)	2016/09/29	
P2000 Series RAID Driver (Windows Version)	2016/09/29	
P2000 Series USB 3.0 Driver (Windows 7)	2016/09/29	
P2000 Series USB 3.0 Driver (Windows 8)	2016/09/29	

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Cincoze Co., Ltd.

7F., No. 4, Aly. 1, Ln. 235, Baociao Rd., Sindian Dist., New Taipei City 23145, Taiwan (R.O.C.)

☎ 886-2-2918-8055 📠 886-2-2918-8066 ✉ info@cincoze.com (contact_form.php)

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