

.XIP-21121D1

12.1" Industrial Touch Panel PC with Intel® Core™ U-Series / Celeron® Processor

Overview

The XIP-21121D1 series is a 12.1" fanless industrial panel PC based on the Intel® Core™ U-Series / Celeron® processor. It features a modular design to allow easy CPU board or I/O board upgrades to fulfill customer needs. The XIP-21121D1 series offers low-power consumption, rich I/O connectivity, and Wi-Fi module expansion. It boasts a sleek design with an IP65 aluminum alloy front panel and a durable metal body, offering superior heat dissipation and high reliability for operation in harsh industrial environments. The XIP-21121D1 series is an excellent HMI platform for industrial applications and factory automation.

Features

- 12.1" LED-backlit LCD with capacitive or resistive touch screen
- Rugged aluminum enclosure and fanless design
- Intel® Core™ U-Series / Celeron® processor
- 2x COM, 4x USB, 2x LAN, 1x VGA, 1x HDMI
- Supports Wi-Fi, 4G
- VESA 100 mount and panel mount compatibility
- IP65 compliant front panel



Windows
11/10



Fanless



Operating
Temp.

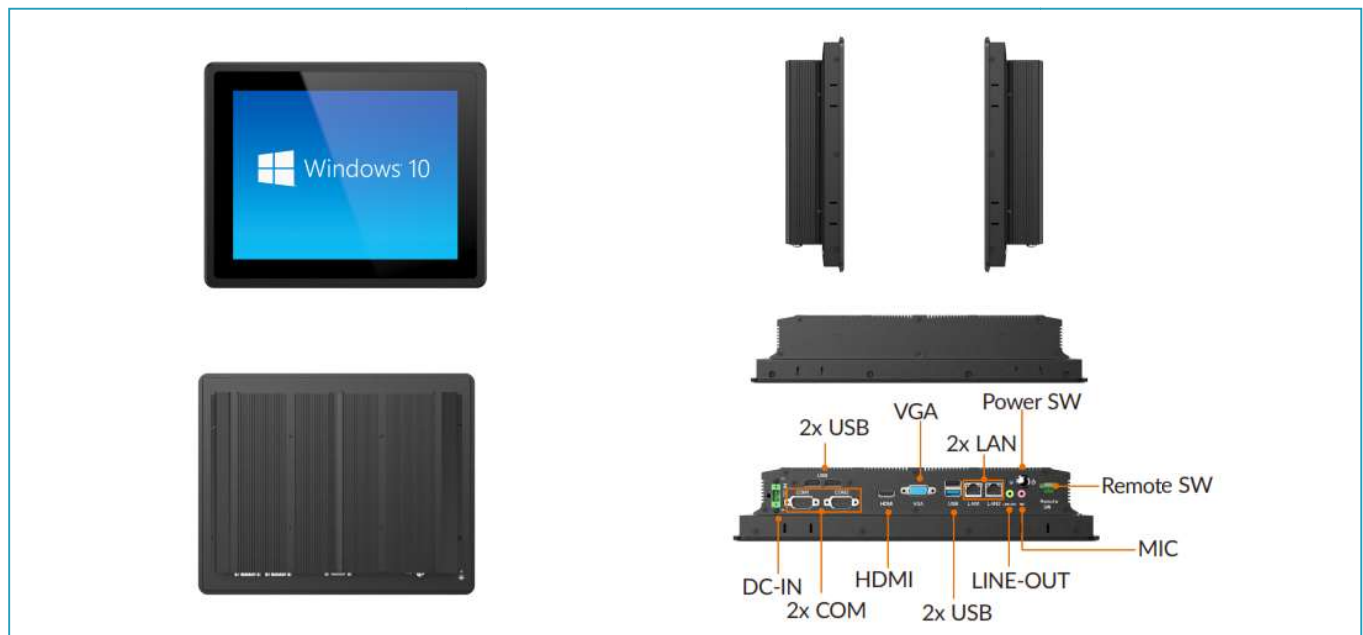


Touch
Display



IP65

I/O Interfaces



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Specifications

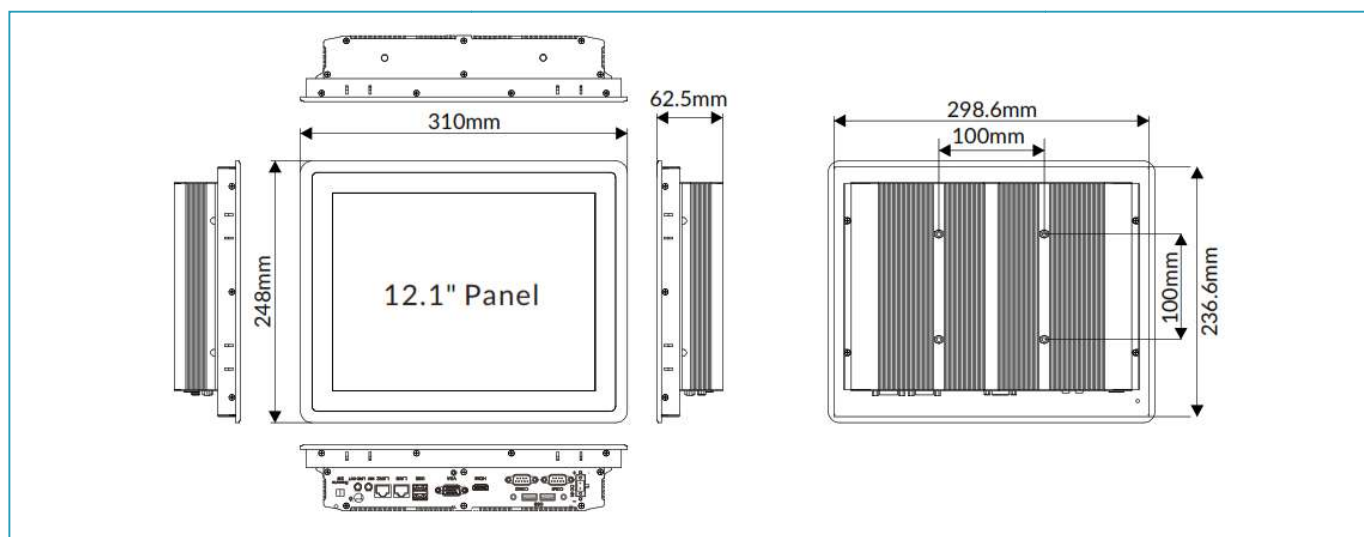
DISPLAY			
Size	12.1-inch		
Touch type	Projected capacitive multitouch 5-wire resistive touch		
Transmittance	87% (capacitive) / 80% (resistive)		
Control Interface	USB		
Surface Hardness	≥7H / ≥3H		
Resolution	1024 x 768		
Luminance	450 nits		
Contrast ratio	1000:1		
View angles	80 (left), 80 (right), 80 (up), 80 (down)		
LED Lifetime	50 000 hrs		
Color	16.7M		
SYSTEM			
CPU	Intel® Celeron® J6412 (2.0 GHz) processor	Intel® Core™ i5-10210U (1.6 GHz) processor	Intel Core™ i7-10710U (1.1 GHz) processor
Memory	1x SO-DIMM DDR4 3200MHz, up to 16GB	2x SO-DIMM DDR4 2666MHz, up to 32GB	2x SO-DIMM DDR4 2666MHz, up to 32GB
Storage	1x 2.5" SATA HDD/SSD (optional) 1x full length Mini PCIe for mSATA SSD		
Operating System	Windows 10 / Windows 11		
I/O PORTS			
USB	2x USB 3.0, 2x USB 2.0		
Serial	2x COM : COM1 : RS-232 COM2 : RS-232/422/485)		
Ethernet	2x GbE LAN		
Display	1x HDMI 1x VGA		
SIM Card Slot	1x SIM slot for 4G (optional)		
Antenna	2x SMA antenna holes		
EXPANSION SLOT			
Mini PCIe	1 x M.2_E for WI-FI 1x full length Mini PCIe for mSATA	1x full length Mini PCIe for Wi-Fi 1x full length Mini PCIe for mSATA	
RF COMMUNICATION			
Wi-Fi	Mini PCIe expansion (optional)		
Cellular	Mini PCIe expansion (optional)		
Bluetooth	Mini PCIe expansion (optional)		
AUDIO			
Audio	Mic in, line out		
Speaker	2Ω5W speaker (optional)		
POWER			
Button	M8		
Remote Power On/Off	1x Remote switch connector		
DC Input	12 VDC (9-36VDC optional)		
Power Connector	2-pin phoenix terminal		
Power Consumption	23W	25W	
Power Adaptor	AC-DC, 12V@5A, 60W		AC-DC, 12V@7A, 84W

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MECHANICAL	
Dimensions (W x D x H mm)	310 x 248 x 62.5 mm (12.2 x 9.7 x 2.4 inches)
Weight (kg)	3.8 kg (8.3 lbs)
Mounting	Panel mount Wall mount bracket VESA 100
Material	Aluminum alloy panel All-metal chassis
ENVIRONMENT	
Operating Temperature	-10°C to 50°C (14 to 122°F)
Storage Temperature	-20°C to 60°C (-4 to 140°F)
Relative Humidity	10% to 95% @ 40°C (104°F), non-condensing
Vibration	5-500Hz, 0.026 G ² /Hz, 2.16 Grms, X, Y, Z, 1 hour per axis
IP Rating	IP65 compliant (Front Panel)
CERTIFICATION	
EMC	CE, FCC
PACKING LIST	
Packing	1x XIP-21121D1 1x AC-DC power adapter 8x Panel mounting buckles 1x Warranty card

Dimensions



Ordering Information

Ref.	Description
XIP-21121D1J6412R	12.1" LCD, Intel Celeron J6412, Resistive, DC 12V input, Phoenix 2P TB
XIP-21121D1J6412C	12.1" LCD, Intel Celeron J6412, P-Cap, DC 12V input, Phoenix 2P TB
XIP-21121D1I510UR	12.1" LCD, Intel Comet Lake Core-i5-10210U, Resistive, DC 12V input, Phoenix 2P TB
XIP-21121D1I510UC	12.1" LCD, Intel Comet Lake Core-i5-10210U, P-Cap, DC 12V input, Phoenix 2P TB
XIP-21121D1I710UR	12.1" LCD, Intel Comet Lake Core-i7-10710U, Resistive, DC 12V input, Phoenix 2P TB
XIP-21121D1I710UC	12.1" LCD, Intel Comet Lake Core-i7-10710U, P-Cap, DC 12V input, Phoenix 2P TB