

PPC2-C121-ADLP

iEi Heavy Industrial Panel PC

Powered by Intel® Alder Lake-P & Raptor Lake-P



www.ieiworld.com



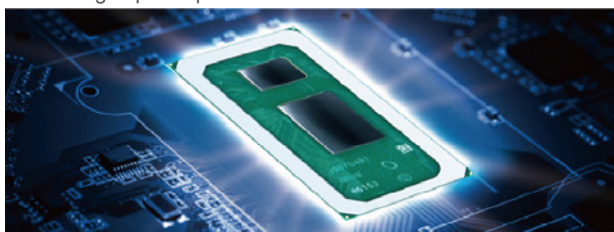
PPC2-C121-ADLP

Fanless panel PC with narrow bezel design, Intel® Alder Lake-P & Raptor Lake-P platform, on-board 8GB memory, HDMI output, dual 2.5GbE LAN, two RS-232, two RS-232/422/485, five USB, two M.2 M key expansion slots, and anti-glare & anti-UV 10-point touchscreen



12th/13th Generation Intel® Core™ i Processors (Alder Lake-P & Raptor Lake-P Platform)

Powered by 12th/13th generation Intel® Alder Lake-P & Raptor Lake-P Series processors and asynchronous architecture, unleashing superior performance.



Anti-glare and Anti-UV PCAP

With anti-glare and anti-UV coating, the 10-point touchscreen can display clearly without reflection.



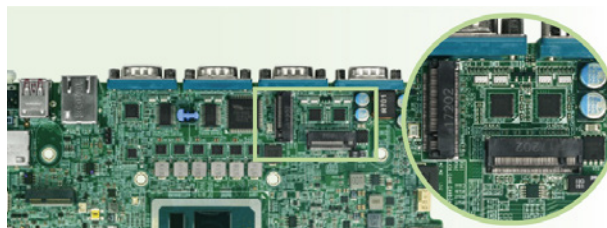
Extensive I/O Interfaces

The panel PC is small, but comes with abundant I/O for a variety of application scenarios. It includes four UART, five USB, two 2.5G network port and one HDMI interface.



Dual full-speed M.2 expansion slots

Two M.2 M keys support 2242 and 2280 size, PCIe Gen4 x 4 full speed signal, more bandwidth, faster speed.



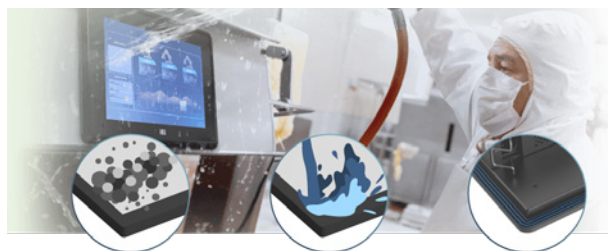
Works with Gloves and Water

The equipped capacitive touch screen supports gloved operation and waterproof function that can effectively eliminate false touch operating caused by water spray.

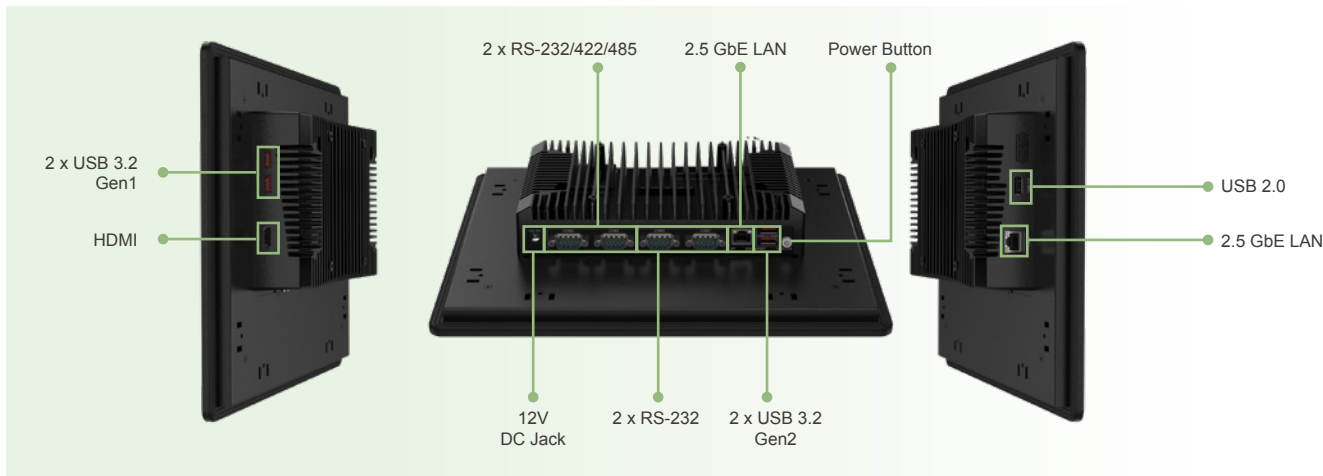


IP65 rated front panel protection

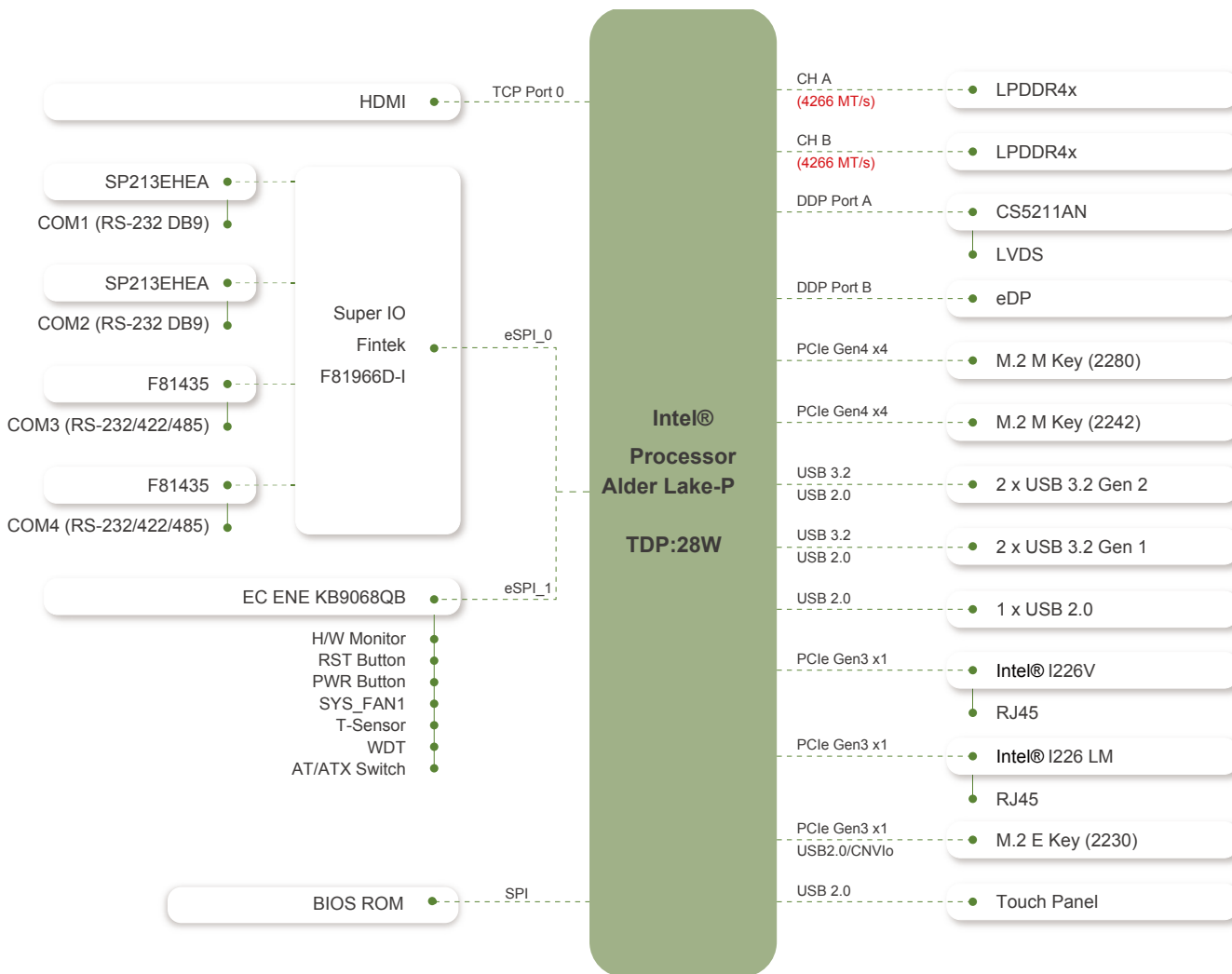
With the IP65 front panel protection rating, this series is more durable and rugged, ensuring reliable operation in harsh industrial environments.



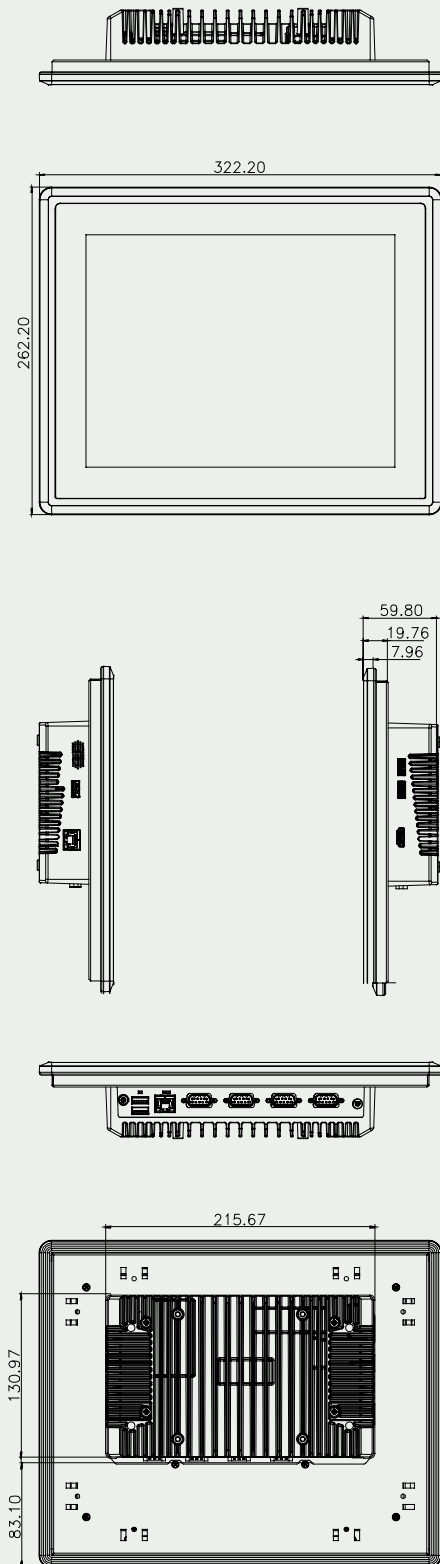
Fully Integrated I/O



Block Diagram



Dimensions (Unit: mm)



Specifications

Model	PPC2-C121-ADLP		
LCD Display	12.1" (4:3)		
Resolution	1024 (W) x 768 (H)		
Brightness	500 cd/m ²		
Contrast Ratio	1000:1		
LCD Color	16.2M		
Viewing Angle (H-V)	178°/178°		
Backlight MTBF	30,000 hours		
CPU (SoC)	support 12th/13th Generation Intel® Core™ i Processors (Alder Lake-P & Raptor Lake-P) Intel® Core™ i7-1370PE (up to 4.8GHz, 14-core, 28W TDP) Intel® Core™ i5-1340PE (up to 4.5GHz, 12-core, 28W TDP) Intel® Core™ i3-1320PE (up to 4.5GHz, 8-core, 28W TDP)		
Memory	Dual channel On board LPDDR4x 8G (max 32GB)		
Touchscreen	PCAP with USB interface (anti-UV/AG coating)		
Touch Controller	Surface hardness: ≥7H Projected capacitive type: EETI 80		
Ethernet	LAN1: Intel® I226V 2.5GbE controller LAN2: Intel® I226-LM 2.5GbE controller (support Intel® AMT)		
Expansion	1 x M.2 M key 2242 (PCIe Gen4 x4) 1 x M.2 M key 2280 (PCIe Gen4 x4)		
Mounting	VESA 100, Panel, Wall, Rack, Stand and Arm		
Construction Material	Aluminum front cover and sheet metal rear cover		
Enclosure Color	Black		
I/O Ports, Switch	2 x RS-232 by DB9 2 x RS-232/422/485 by DB9 2 x 2.5GbE LAN 1 x Reset button	1 x HDMI output 1 x 12V DC Jack 1 x Power button 1 x AT/ATX switch	2 x USB 3.2 Gen2 2 x USB 3.2 Gen1 1 x USB 2.0
Thermal Solution	Fanless		
Power Input	DC 12V		
Power Consumption	12V@3.38A (Intel® Core i7-1270PE With 8GB LPDDR4 Memory)		
TPM	Intel® Platform Trust Technology		
Watchdog Timer	Software Programmable support 1~255 sec. system reset		
Operating Temperature (with air flow)	-10°C ~ 50°C		
Storage Temperature	-20°C ~ 60°C		
Humidity	10% ~ 95%@40°C, non-condensing		
IP Level	IP65 compliant front panel		
Safety and EMC	CE, FCC Class A, UKCA		
Operation Vibration	MIL-STD-810G 514.6C-1(with SSD)		
Operation Shock	Half-sine wave shock 5G; 11ms; 100 shocks per axis		
Dimensions (H x W x D)	322.20 x 262.20 x 59.8 (mm)		
Cutout Dimensions (mm)	304.80 x 244.80		
Net Weight	2.97 kg		
ErP	ErP 2009/125/EC		
OS	Windows 10/11 IoT, Linux		

Ordering Information

PPC2-C121-ADLP-Ri3EC-R11	12.1" 500cd/m ² 1024x768 Fanless Panel PC with 13th Generation Intel® Core™ i3-1320PE on-board Processor, TDP 28W, 8GB on-board memory, PCAP touch, 12V DC, R11
PPC2-C121-ADLP-Ri5EC-R11	12.1" 500cd/m ² 1024x768 Fanless Panel PC with 13th Generation Intel® Core™ i5-1340PE on-board Processor, TDP 28W, 8GB on-board memory, PCAP touch, 12V DC, R11
PPC2-C121-ADLP-Ri7ED-R11	12.1" 500cd/m ² 1024x768 Fanless Panel PC with 13th Generation Intel® Core™ i7-1370PE on-board Processor, TDP 28W, 16GB on-board memory, PCAP touch, 12V DC, R11

Packing List

1 x Power Cord	1 x Power Adapter	1 x QIG	1 x Thermal Pad	9 x Panel Mount Kit
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Options

Item	Part No.	Description
Stand	STAND-C12-R10	VESA 75/100 Easy Stand
Wall	AFLWK-19B	Monitor Wall Mount Kit
WIN10 OS IMAGE	PPC2-ADLP-W10IoT21-H-R11	OS Image with Windows® 10 IoT Enterprise High End 64-bit 2021 LTSC for PPC2-XXX-ADLP i7 Series w/o PPC2-XXXX-ADLP series, Language version: English, Simplified Chinese, Traditional Chinese and Japanese, RoHS.
	PPC2-ADLP-W10IoT21-V-R11	OS Image with Windows 10 IoT Enterprise Value 64-bit 2021 LTSC for PPC2-XXX-ADLP i3 & i5 Series w/o PPC2-XXXX-ADLP series, Language version: English, Simplified Chinese, Traditional Chinese and Japanese, RoHS.
WIN11 OS IMAGE	PPC2-ADLP-W11IoT24-H-R11	OS Image with Windows® 11 IoT Enterprise High End 64-bit 2024 LTSC for PPC2-XXX-ADLP i7 Series w/o PPC2-XXXX-ADLP series, four language versions, RoHS.
	PPC2-ADLP-W11IoT24-V-R11	OS Image with Windows® 11 IoT Enterprise Value 64-bit 2024 LTSC for PPC2-XXX-ADLP i3&i5 Series w/o PPC2-XXXX-ADLP series, four language versions, RoHS.