

UPC-F12M1-RPLP

IEI Heavy Industrial Panel PC

Powered by Intel® Raptor Lake-P platform

- 12.1" 1024x768 600 nits LCD
- Intel® Raptor Lake-P platform
- Full body IP66 waterproof
- Anti-glare & Anti-UV PCAP touch screen
- Work with gloves and water
- Aluminum die-casting housing
- Fanless design
- DC-in supports ACC mode
- Customized M12 I/O selection
- (Optional) RFID reader
- (Optional) WiFi6, BT5.2

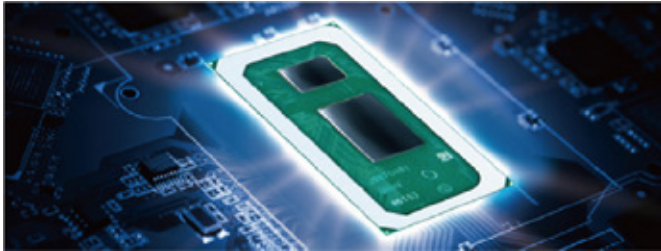


iei®



13th Gen Intel®Raptor Lake-P Platform

Powered by 13th generation Intel® Raptor Lake-P Series processors add more thread processing can increase computing power, making product performance even better.



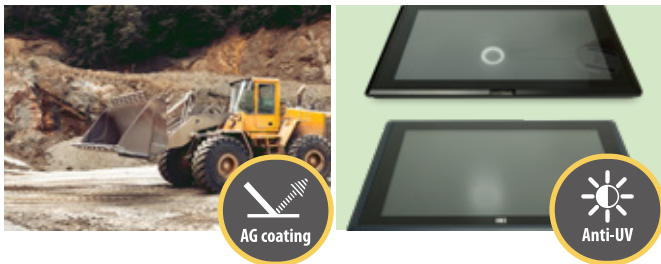
Support WiFi 6E and Bluetooth 5.2 and RFID

Strong Wi-Fi 6E wireless network capability provides more bandwidth, and the low latency Bluetooth 5.2 connection is more stable and consumes less power.



Anti-glare and Anti-UV PCAP

With anti-glare and anti-UV coating, the 10-point touchscreen can display clearly without reflection for a long time use in sunlight readable and bright light environment.



Corrosion-Resistant Full Die-Cast Aluminum Housing for Efficient Heat Dissipation

The aluminum die-cast housing provides durability, corrosion resistance, and thermal conductivity, ideal for industrial use, outperforming plastic. The structure is more standard and the whole is compact.



Freely selected I/O interface

The panel PC is small, but comes with abundant I/O for a variety of application scenarios. Customers can freely lead out the required interface according to their own needs

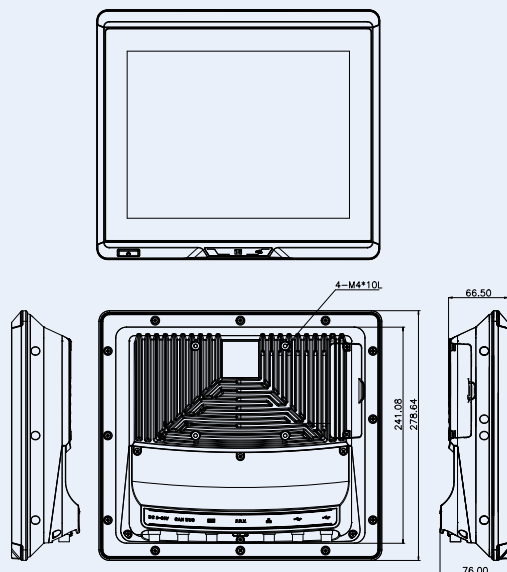


Full body IP66 protection rating

The full body IP66 protection level not only provides more robust and reliable performance, but also meets the specific needs of professional users and users in special environments.



Dimensions (Unit: mm)



Standard I/O cover
Not ready



M12 I/O cover

Specifications

Model		UPC-F12M1-RPLP-i3/PC/8G-R10			
LCD	Size	12.1" (4:3)			
	Resolution (WxH)	1024 x 768			
	Brightness (cd/m²)	600			
	LCD Color	16.7M			
	Pixel Pitch (mm)	0.24 x 0.24			
	Contrast Ratio	1000 : 1			
	Viewing Angle (H-V)	178°/178°			
	Backlight MTBF	50,000 hours			
Touch	Touch Screen	PCAP with USB interface (anti-UV/AG coating)			
	Touch Controller	ILITEK: ILI2520			
Motherboard	SOC	Intel® Raptor Lake-P Core™ i3-1315URE SoC Processor (15W)			
	RAM	Dual channel 8GB LPDDR4x on board			
	Ethernet	LAN1: Intel® I226IT 2.5GbE controller LAN2: Intel® I226IT 2.5GbE controller			
	Storage	1 x M.2 M key 2280 (PCIe Gen3 x4)			
	Expansion	1 x M.2 B key 3042/3052/2280 (SATA & PCIe Gen3 x1 & USB 3.0) 1 x M.2 M key 2280 (PCIe Gen3 x4) 1 x M.2 2230 E key Slot (PCIe + USB signal)			
		Internal I/O Ports	1 x HDMI 2 x LAN (RJ45) 2 x CAN Bus (RJ45) 1 x RS-232 (RJ45) 1 x RS-232/422/485 (RJ45) 2 x USB3.2 Gen2 1 x USB3.0 1 x DIN 4pin DC jack (9~36V DC) 1 x DC-in terminal block (9~36V DC) support ACC mode		
	External I/O Ports		1 x 5pin M12A MALE connector for DC Jack / Terminal (9V~36V DC) 1 x 8pin M12A MALE connector for CANBUS 1 x 8pin M12A MALE connector for COM (RS-232/422/485) 1 x 8pin M12X MALE connector for GbE LAN (2.5G) 2 x 8pin M12A MALE connector for USB 2.0		
			Connectivity	RFID Mifare RFID reader, 13.56M Hz (optional)	
				Wireless & Bluetooth IEEE 802.11 a/b/g/n/ax, Bluetooth V5.2 (optional)	
			Physical	Construction	Aluminum die-casting
				Mounting	VESA 100mm x 100mm
				Net Weight	5kg
Dimensions (W x L x D) (mm)				316 x 279 x 67	
Environment	Operating Temperature (Ambient with air flow)	-20°C ~ 60°C			
	Storage Temperature	-20°C ~ 70°C			
	Humidity	10% to 95%@40°C (non-condensing)			
	Operating Shock	Half-sine wave shock 5G; 11ms; 100 shocks per axis			
	Operating Vibration	MIL-STD-810F 514.5G-1 (with SSD)			
	IP Level	6 side IP66			
	Safety&EMC	CE/FCC/UKCA			
	Thermal Solution	Fanless			
Power	9 ~ 36V DC-in terminal block support ACC mode				
ErP		ErP 2009/125/EC			
OS		Windows 10/11 IoT Linux			
Packing List	Power Cable x1	2 meter power cable with 5 pin M12A female			
	USB Cable x1	3 meter USB cable with 8pin M12A female to USB type A female x2			
Optional	32005-006600-100-RS	3 meter CANBUS cable 8pin M12A female			
	32005-006500-100-RS	3 meter COM cable 8pin M12A female to DB9 male			
	32013-007400-100-RS	3 meter LAN cable 8pin M12X female to RJ45 female			
	UPC-F-WIFI-KIT01-R10	Wireless Lan Module: Bluetooth 5.2,Wi-Fi 6E (ATO only)			
	UPC-F-MF-RFID-KIT02-R10	Mifare RFID reader (ATO only)			
	STAND-C12-R10	VESA 100x100mm PPC/Monitor Stand, Blackcolor			
	AFLWK-19B	VESA 100x100mm Wall mounting kit			

Ordering Information

Part No	Description
UPC-F12M1-RPLP-i3/PC/8G-R10	12.1" 600cd/m² XGA fanless panel PC with Intel® Raptor Lake-P Core™ i3-1315 URE Processor, TDP 15W, 8GB LPDDR4x RAM, PCAP touch, M12 I/O, R10