PPC-F-Q370 Series

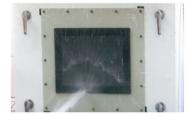
IP66 Front Panel Protection

PPC-FxxC series provides front mechanical IP dust and water resistant design. The sealing concept of PPC-FxxC contains the following product sealing to offer rugged IP66 front protection:

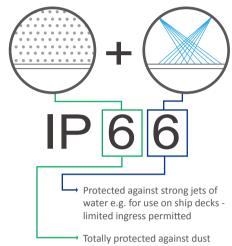
- PCAP touchscreen to front aluminum bezel with waterproof glue dispensing
- Internal dust sealing poron from LCD to the touchscreen
- Rubber sealing for mounting to the equipment



Test for protection against dust



Test for protection against water



Anti-glare and UV-resistant Touch Screen Ideal for Outdoor Applications

Etching anti-glare, never peel off!

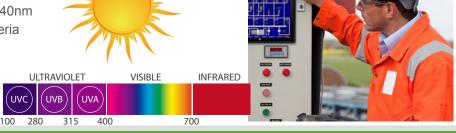
The PPC-FxxC series is built with anti-glare touch screen, which has lower reflection compared to normal touch screen. The reflection will reduce from 8% to 1% and it will eliminate the interference of shine and lights on displays and improve the screen clarity.



UV-resistant ensures reliable continuous operation for mission critical applications

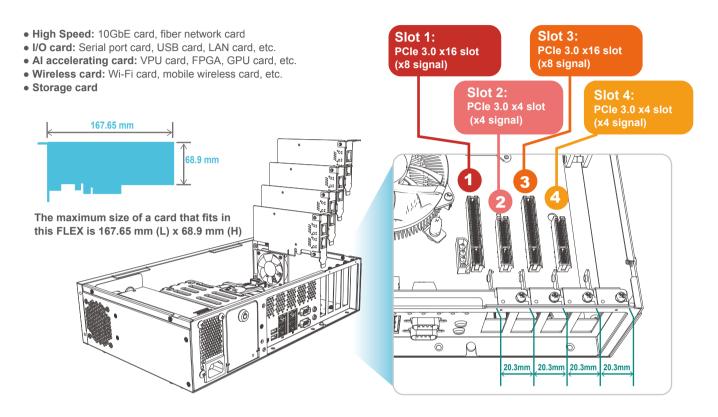
Outdoor applications exposing to direct sunlight and long-term ultraviolet (UV) light will affect PCAP panel appearance such as PCAP top glass hard coat cracking and hazing, or varying degrees of yellowing and bubbling. Thus, IEI offers a UV resistant PCAP touch solution to equip outdoor industrial systems exposed to direct long-term sunlight with anti-UV characteristics.

- Blocks UV wavelengths less than ≈340nm
- Meets ASTM G154 performance criteria Cycle 1 for 1000 hours



>> Four PCIe x4/x8 Low Profile Expansion Slots

The PPC-FxxC series supports multiple PCIe slots including two PCIe 3.0 x8 and two PCIe 3.0 x4 slots, which are compatible with standard low profile add-on cards, to meet different edge inference computing applications.



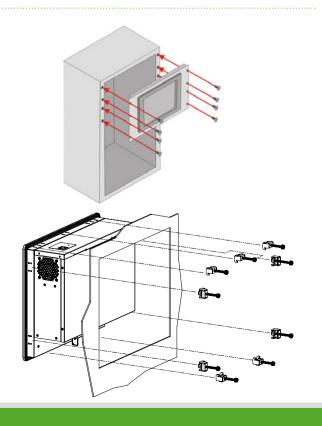
Flexible Deployment

Rack Mount

The PPC-FxxC with rack mounting kit can easily fit the standard 19" cabinet for industrial applications.

Panel Mount

Panel mounting is the mounting way that mounts product into an opening of a customer's fixture from the front and secured from the rear. All user controls are located on the rear of the mechanism, making the panel mount displays a good choice for applications requiring a display with no external or exposed controls such as CNC equipment, gaming, casino system, ATM, and kiosk.



PPC-F-Q370 Series Selection Guide











Model	LCD Size		15" W15" 17"						
Max. Resolution 1024x788 1366x768 1260x1024 Brightness (cx/m²) 450 400 350 Contrast Ratio 800-1 500-1 1000-1 LCD Color 16.2M 16.2M 16.2M 16.7M Viewing Angle (H/V) 160*1150* 170*160* 170*160* Backlight MTBF (Hrs) 70,000 50,000 50,000 Color 6.2M 70,000 70,000 70,000 Chipset PCAP touch with 10-point multitouch, anti-glare conting CPU 8th Generation Intel® Card*** 1756/31 and Pentium® processor in the LGA 1151 package Chipset PCAP touch with 10-point multitouch, anti-glare conting Mainboard Memory 2 x 288-pin 2069/2400 MHz dual-channel DDR4 unbuffered DIMM slot supporting up to 84G8 Intel® Engine Intel® Engine Intel® Card*** 1756/31 and Pentium® processor in the LGA 1151 package Intel® HD Graphics Gen 9 Engines with 16 low-power execution units, supports DX2015, OpenGL 5.X and OpenCl 2 X, ES 2.0 Ethernet Intel® El1 controller Storage Intel® El2 S SATA 66/bis HDDSSS bas (RADIO 01/5/16 support) with LED indicator (2) x M 2 280 PCIe Gen 3.0 x NVMe™ SSD socket Storage Intel® El2 S SATA 66/bis HDDSSS bas (RADIO 01/5/16 support) with LED indicator (2) x M 2 280 PCIe Gen 3.0 x NVMe™ SSD socket Storage Intel® El2 S SATA 66/bis HDDSSS bas (RADIO 01/5/16 support) with LED indicator (2) x M 2 280 PCIe Gen 3.0 x NVMe™ SSD socket Storage Intel® El2 S SATA 66/bis HDDSSS bas (RADIO 01/5/16 support) with LED indicator (2) x M 2 280 PCIe Gen 3.0 x NVMe™ SSD socket	Model		PPC-F15C-Q370 PPC-FW15C-Q370		PPC-F17C-Q370				
Brightness (cd/m²)		LCD Size	15"	15" 15.6" 17"					
Temperature Contrast Ratio 800:1 500:1 1000:1		Max. Resolution	1024x768	1366x768	1280x1024				
LCD Color		Brightness (cd/m²)	450	400	350				
Viewing Angle (H/V) 160*/150* 170*/160* 50,000	TFT LCD	Contrast Ratio	800:1 500:1 1000:1						
Backlight MTBF (Hrs) 70,000 50,000 50,000 50,000 Touch Screen		LCD Color	16.2M 16.2M 16.7M						
Touch Screen		Viewing Angle (H/V)	160°/150°	160°/150° 170°/160° 170°/160°					
CPU		Backlight MTBF (Hrs)	70,000	50,000	50,000				
Mainboard Memory 2 x 288-pin 2666/2400 MHz dual-channel DDR4 unbuffered DIMM slot supporting up to 64GB	Touch Screen		PCAP t	ouch with 10-point multitouch, anti-glare	coating				
Mainboard Memory 2 x 288-pin 2666/2400 MHz dual-channel DDR4 unbuffered DIMM slot supporting up to 64GB Graphics Engine Intel® HD Graphics Gen 9 Engines with 16 low-power execution units, supports DX2015, OpenGL 5.X and OpenCl 2x ES 2.0 Ethernet Intel® L211 controller Storage (1) 4 x Accessible 2.5° SATA 60bs HDD/SSD bay (RAID 01/5/10 support) with LED indicator (2) 2 x M 2 2280 PCle Gen 3.0 x 4 NVMe™ SSD socket L/O Ports and Switches 1 x HDMI output 2 x 60E LAN 6 x USB 3.1 Gen 1 (5Gb/s) Type-A 2 x RS-232 DB-9 type 1 x Milc in 1 x Line out 1 x AC power in Inlet Power button with power LED (power on=Blue) ATATAY mode switch Reset button Expansion Slots 2 x PCle 3.0 by 4 (maximum card size supported: 68 mm x 167 mm) Thermal Solution Smart Fan AC input ATX power supply 1. 250W power supply 1. 250W power supply 1. 250W power supply 2. 250W power supply 3. 250W power supply 3. 250W power supply 3. 250W power supply (Bullid to Order) 1. Input: 115VAC-264VAC, 50/60Hz - 0. Output (max) 3. 33/@14A, 54/@25A, -12V@0.3A, +5Vsb@3A 2. 350W power supply (Bullid to Order) 1. Input: 115VAC-264VAC, 50/60Hz - 0. Output (max) 3. 33/@14A, 54/@16A, 12V@29A, -12V@0.3A, +5Vsb@3A - Efficiency; Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% (Dutput (max) 3. 33/@14A, 54/@16A, 12V@29A, -12V@0.3A, +5Vsb@3A - Efficiency; Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% (Dutput (max) 3. 33/@14A, 54/@16A, 12V@29A, -12V@0.3A, +5Vsb@3A - Efficiency; Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% (Dutput (max) 3. 33/@14A, 54/@16A, 12V@29A, -12V@0.3A, +5Vsb@3A - Efficiency; Full load		CPU	8th Generation Intel® C	ore™ i7/i5/i3 and Pentium® processor i	n the LGA 1151 package				
Intel® HD Graphics Engine Ethernet Intel® HD Graphics Gen 9 Engines with 16 low-power execution units, supports DX2015, OpenGL 5.X and OpenCl 2 x, ES 2.0		Chipset		Intel® Q370 Chipset					
Ethernet	Mainboard	Memory	2 x 288-pin 2666/2400 MH	z dual-channel DDR4 unbuffered DIMM	slot supporting up to 64GB				
Storage		Graphics Engine	Intel® HD Graphics Gen 9 Engines w		rts DX2015, OpenGL 5.X and OpenCL				
(2) 2 x M 2 2280 PCIe Gen 3.0 x4 NVMe™ SSD socket 1 x HDMI output 2 x GbE LAN 6 x USB 3.1 Gen 1 (5Gb/s) Type-A 2 x RS-232 De-9 type 1 x Mic in 1 x Line out 1 x AC power in Inlet Power button with power LED (power on=Blue) AT/ATX mode switch Reset button Expansion Slots 2 x PCIe 3.0 by 4 (maximum card size supported: 68 mm x 167 mm) Thermal Solution AC input ATX power supply 1 250W power supply (Build to Order) 1 - Input 115VAC-224VAC, 506GbHz 1 - Output (max.): 3.3 V@14A, 5 V@16A, 12V@29A, -12V@0.3A, +5Vsb@3A 2 350W power supply (Build to Order) 1 - Input 115VAC-224VAC, 506GbHz 2 - Output (max.): 3.3 V@14A, 5 V@16A, 12V 29A, -12V@0.3A, +5Vsb@3A 2 Efficiency: Full load (100%) 87%. Typical load (50%) 90%, Light load (20%) 87% Watchdog Time Software Programmable support 1~255 sec. system reset P Rating IP66-rated front panel		Ethernet		Intel® I211 controller					
2 x GBE LAN	Storage		` '		• • •				
Expansion Siots 2 x PCle 3.0 by 4 (maximum card size supported: 68 mm x 167 mm)	I/O Ports and Switches		2 x GbE LAN 6 x USB 3.1 Gen 1 (5Gb/s) Type-A 2 x RS-232 DB-9 type 1 x Mic in 1 x Line out 1 x AC power in Inlet Power button with power LED (power on=Blue) AT/ATX mode switch						
AC input ATX power supply 1. 250W power supply 2. 350W power supply (Build to Order) 1. Input: 115VAC~264VAC, 50/60Hz - Output (max.): 3.3V@14A, 5V@16A, 12V@29A, -12V@0.3A,+5Vsb@3A -Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% Watchdog Timer Software Programmable support 1~255 sec. system reset IP Rating Chassis Construction Metal Housing Mounting Rack/Panel Mount Color Front Bezel: Cyan-blue (PSM 296C), Others: Black C Cut-out dimensions (LxDxH) (mm) Dimensions (LxDxH) (mm) Operating Temperature 378.5 x 303 x 118 400.1 x 253.3 x 121 408.4 x 341.4 x 119 Finite powerated Storage Temperature -20°C ~ 50°C (with HDD or add-on cards without fan) Storage Temperature	Expansion Slots								
1. 250W power supply - Input: 115VAC230VAC, 50/60Hz - Output (max.): 3.3V@12A, 5V@14A, 12V@25A, -12V@0.3A,+5Vsb@3A 2. 350W power supply (Build to Order) - Input: 115VAC264VAC, 50/60Hz - Output (max.): 3.3V@14A, 5V@16A, 12V@29A, -12V@0.3A,+5Vsb@3A - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% - Efficiency: Full load (100%) 87%, Typical load (100%) 87%, Typical load (100%) 87% - Efficiency: Full load (100%) 87%, Typical load (100%) 87% - Efficiency: Full load (100%) 87%, Typical load (100%) 87% - Efficiency: Full load (100%) 87%, Typical load (100%) 87%, Typical load (100%) 87%, Typical load (100%) 87% - Efficiency: Full load (100%) 87%, Typical load (100%) 87%, Typical load (100%) 87%, Typical load (100%) 87%, Typical load (100%)	Thermal Solution			Smart Fan					
IP Rating	Power Supply		1. 250W power supply - Input: 115VAC~230VAC, 50/60Hz - Output (max.): 3.3V@12A, 5V@14A, 12V@25A, -12V@0.3A,+5Vsb@3A 2. 350W power supply (Build to Order) - Input: 115VAC~264VAC, 50/60Hz - Output (max.): 3.3V@14A, 5V@16A, 12V@29A, -12V@0.3A,+5Vsb@3A						
Chassis Construction	Watchdog Timer								
Mounting Rack/Panel Mount Color Front Bezel : Cyan-blue (PSM 296C), Others: Black C Cut-out dimensions (LxDxH) (mm) 361.1 x 285.6 379.1 x 232.3 391 x 324 Dimensions (LxDxH) (mm) 378.5 x 303 x 118 400.1 x 253.3 x 121 408.4 x 341.4 x 119 Operating Temperature -20°C ~ 50°C (with SSD and up to TDP 65W processor) -20°C ~ 40°C (with HDD or add-on cards without fan) Storage Temperature -30°C ~ 60°C	IP Rating		IP66-rated front panel						
Construction Color Front Bezel : Cyan-blue (PSM 296C), Others: Black C Cut-out dimensions (LxDxH) (mm) 361.1 x 285.6 379.1 x 232.3 391 x 324 Dimensions (LxDxH) (mm) 378.5 x 303 x 118 400.1 x 253.3 x 121 408.4 x 341.4 x 119 Operating Temperature -20°C ~ 50°C (with SSD and up to TDP 65W processor) -20°C ~ 40°C (with HDD or add-on cards without fan) Storage Temperature -30°C ~ 60°C		Chassis Construction	Metal Housing						
Cut-out dimensions (LxDxH) (mm) 361.1 x 285.6 379.1 x 232.3 391 x 324 Dimensions (LxDxH) (mm) 378.5 x 303 x 118 400.1 x 253.3 x 121 408.4 x 341.4 x 119 Operating Temperature -20°C ~ 50°C (with SSD and up to TDP 65W processor) -20°C ~ 40°C (with HDD or add-on cards without fan) Storage Temperature -30°C ~ 60°C		Mounting	Rack/Panel Mount						
(LxDxH) (mm) 361.1 x 285.6 379.1 x 232.3 391 x 324 Dimensions (LxDxH) (mm) 378.5 x 303 x 118 400.1 x 253.3 x 121 408.4 x 341.4 x 119 -20°C ~ 50°C (with SSD and up to TDP 65W processor) -20°C ~ 40°C (with HDD or add-on cards without fan) Storage Temperature	Construction	Color	Front Bezel : Cyan-blue (PSM 296C), Others: Black C						
(mm) 3/8.5 x 303 x 118 400.1 x 253.3 x 121 408.4 x 341.4 x 119 Operating Temperature -20°C ~ 50°C (with SSD and up to TDP 65W processor) -20°C ~ 40°C (with HDD or add-on cards without fan) Storage Temperature -30°C ~ 60°C			361.1 x 285.6	379.1 x 232.3	391 x 324				
Operating Temperature -20°C ~ 40°C (with HDD or add-on cards without fan) Storage Temperature -30°C ~ 60°C		, ,	378.5 x 303 x 118	400.1 x 253.3 x 121	408.4 x 341.4 x 119				
Environmental		Operating Temperature			•				
Environmental Operating Humidity 50/ >050/ pop condensing	Environmental	Storage Temperature		-30°C ~ 60°C					
Operating Figure 5% ~95%, non-condensing		Operating Humidity	5% ~95%, non-condensing						
Vibration 5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak		Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak						
Shock 10G acceleration part to part (11ms)		Shock	10G acceleration part to part (11ms)						

PPC-F-Q370 Series Selection Guide









LCD Size		18.5" 21.5" 23.8"					
Model		PPC-FW19C-Q370	PPC-FW22C-Q370	PPC-FW24C-Q370			
	LCD Size	18.5"	21.5"	23.8"			
	Max. Resolution	1366x768	1920x1080	1920x1080			
	Brightness (cd/m²)	400	250	250			
TFT LCD	Contrast Ratio	1000:1	1000:1	3000:1			
	LCD Color	16.7M	16.7M	16.7M			
	Viewing Angle (H/V)	170°/160°	170°/160°	178°/178°			
	Backlight MTBF (Hrs)	50,000 30,000		30,000			
Touch Screen		PCAP to	uch with 10-point multitouch, anti-glar	e coating			
	CPU	8th Generation Intel® Co	ore™ i7/i5/i3 and Pentium® processor	in the LGA 1151 package			
	Chipset		Intel® Q370 Chipset				
Mainboard	Memory	2 x 288-pin 2666/2400 MHz dual-channel DDR4 unbuffered DIMM slot supporting up to 64GB					
Mamboard	Graphics Engine	Intel® HD Graphics Gen 9 Engines with 16 low-power execution units, supports DX2015, OpenGL 5.X and OpenCL 2 x, ES 2.0					
	Ethernet		Intel® I211 controller				
Storage			A 6Gb/s HDD/SSD bay (RAID 0/1/5/10 .2 2280 PCIe Gen 3.0 x4 NVMe™ SS				
I/O Ports and Switches		1 x HDMI output 2 x GbE LAN 1 x AC power in Inlet 6 x USB 3.1 Gen 1 (5Gb/s) Type-A 2 x RS-232 DB-9 type 1 x Mic in 1 x Line out 1 x AC power in Inlet A x AC power in Inlet 1 x AC power on = Blue) A x B x AC power on = Blue) A x AC power on = Blue)					
Expansion Slots		2 x PCle 3.0 by 8 (by 16 slot) 2 x PCle 3.0 by 4 (maximum card size supported: 68 mm x 167 mm)					
Thermal Solution			Smart Fan				
Power Supply		AC input ATX power supply 1. 250W power supply - Input: 115VAC~230VAC, 50/60Hz - Output (max.): 3.3V@12A, 5V@14A, 12V@25A, -12V@0.3A,+5Vsb@3A 2. 350W power supply (Build to Order) - Input: 115VAC~264VAC, 50/60Hz - Output (max.): 3.3V@14A, 5V@16A, 12V@29A, -12V@0.3A,+5Vsb@3A -Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87%					
Watchdog Timer		Software Programmable support 1~255 sec. system reset					
IP Rating		IP66-rated front panel					
	Chassis Construction	Metal Housing					
	Mounting	Rack/Panel Mount Panel Mount					
Construction	Color	Front Bezel : Cyan-blue (PSM 296C), Others: Black C					
	Cut-out dimensions (LxDxH) (mm)	447.8 x 267.2	533 x 341	577.6 x 359.6			
	Dimensions (LxDxH) (mm)	469.8 x 289.2 x 120.8	550.4 x 358.4 x 117.8	600 x 356.6 x 119			
	Operating Temperature	$-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$ (with SSD and up to TDP 65W processor) $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$ (with HDD or add-on cards without fan)					
Environmental	Storage Temperature	-30°C ~ 60°C					
	Operating Humidity	5% ~95%, non-condensing					
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak					
	Shock	10G acceleration part to part (11ms)					

PPC-F-Q370 Series

15"/15.6"/17" AI Ready Panel PC Based on Intel® OpenVINO™ toolkit

Features

- 15"~24" Panel PC with 8th Generation LGA 1151 Intel® Core™ i7/i5/i3 and Pentium® processor
- Four hot-swappable and accessible HDD drive bays, support RAID 0/1/5/10
- Two PCle 3.0 by 4 and two PCle 3.0 by 8 slots
- Dual M.2 2280 PCle Gen 3.0 x4 NVMe™ SSD support









Specifications

	Model	PPC-F15C-Q370	PPC-F17C-Q370	PPC-FW15C-Q370				
	LCD Size	15"	17"	15.6"				
	Max. Resolution	1024x768	1024x768 1280x1024 1366x768					
	Brightness (cd/m²)	450	350	400				
TFT LCD	Contrast Ratio	800:1	1000:1	500:1				
	LCD Color	16.2M 16.7M		16.2M				
	Viewing Angle (H/V)	160°/150°	170°/160°	170°/160°				
	Backlight MTBF (Hrs)	70,000	50,000	50,000				
Touch Screen	,	PCAP t	ouch with 10-point multitouch, anti-gla	are coating				
	CPU	8th Generation Intel® C	Core™ i7/i5/i3 and Pentium® processo	or in the LGA 1151 package				
	Chipset		Intel® Q370 Chipset					
Mainhoard	Memory	2 x 288-pin 2666/2400 MF	Iz dual-channel DDR4 unbuffered DIM	MM slot supporting up to 64GB				
Mainboard	Graphics Engine	Intel® HD Graphics Gen 9 Engines with 16 low-power execution units, supports DX2015, OpenGL 5.X and OpenCL 2 x, ES 2.0						
	Ethernet		Intel® I211 controller					
Storage			TA 6Gb/s HDD/SSD bay (RAID 0/1/5/2 M.2 2280 PCIe Gen 3.0 x4 NVMe™ S					
I/O Ports and Sw	itches	1 x HDMI output 2 x GbE LAN 1 x AC power in Inlet 6 x USB 3.1 Gen 1 (5Gb/s) Type-A 2 x RS-232 DB-9 type AT/ATX mode switch 1 x Mic in Reset button						
Expansion Slots		2 x PCle 3.0 by 8 (by 16 slot) 2 x PCle 3.0 by 4 (maximum card size supported: 68 mm x 167 mm)						
Thermal Solution		Smart Fan						
Power Supply		AC input ATX power supply 1. 250W power supply - Input: 115VAC~230VAC, 50/60Hz - Output (max.): 3.3V@12A, 5V@14A, 12V@25A, -12V@0.3A,+5Vsb@3A 2. 350W power supply (Build to Order) - Input: 115VAC~264VAC, 50/60Hz - Output (max.): 3.3V@14A, 5V@16A, 12V@29A, -12V@0.3A,+5Vsb@3A -Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87%						
Watchdog Timer		Software Programmable support 1~255 sec. system reset						
	IP Rating	IP66-rated front panel						
	Chassis Construction	Metal Housing						
	Mounting	Rack/Panel Mount						
Construction	Color	Front Bezel : Cyan-blue (PSM 296C), Others: Black C						
Construction	Cut-out dimensions (LxDxH) (mm)	361.1 x 285.6	391 x 324	379.1 x 232.3				
	Dimensions (LxDxH) (mm)	378.5 x 303 x 118 408.4 x 341.4 x 119 400.1 x 253.3 x 121						
	Operating Temperature	-20°C \sim 50°C (with SSD and up to TDP 65W processor) -20°C \sim 40°C (with HDD or add-on cards without fan)						
Environmental	Storage Temperature	-30°C ~ 60°C						
Environmental	Operating Humidity	5% ~95%, non-condensing						
			5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak					
	Vibration	5~17Hz, 0.1 double am	nplitude displacement 17~640Hz 1.5G	acceleration peak to peak				

PPC-F-Q370 Series

18.5"/21.5"/23.8" AI Ready Panel PC Based on Intel® OpenVINO™ toolkit

Features

- 15"~24" Panel PC with 8th Generation LGA 1151 Intel® Core™ i7/i5/i3 and Pentium® processor
- Four hot-swappable and accessible HDD drive bays, support RAID 0/1/5/10
- Two PCIe 3.0 by 4 and two PCIe 3.0 by 8 slots
- Dual M.2 2280 PCle Gen 3.0 x4 NVMe[™] SSD support









Specifications

Model	PP	C-FW19C-Q370	PPC-FW22C-Q370	PPC-FW24C-Q370			
LCD Size		18.5"	21.5"	23.8"			
Max. Resolutio	n	1366x768	1920x1080	1920x1080			
Brightness (cd/	m²)	400	250	250			
TFT LCD Contrast Ratio		1000:1	1000:1	3000:1			
LCD Color		16.7M	16.7M	16.7M			
Viewing Angle	(H/V)	170°/160°	170°/160°	178°/178°			
Backlight MTB	F (Hrs)	50,000	30,000	30,000			
Touch Screen		PCAP	touch with 10-point multitouch, anti-glare	coating			
CPU		8th Generation Intel®	Core™ i7/i5/i3 and Pentium® processor in	n the LGA 1151 package			
Chipset		Intel® Q370 Chipset					
Mainboard		2 x 288-pin 2666/2400 MHz dual-channel DDR4 unbuffered DIMM slot supporting up to 64GB					
Graphics Engir	ne Intel® HD (ntel® HD Graphics Gen 9 Engines with 16 low-power execution units, supports DX2015, OpenGL 5.X and OpenCL 2 x, ES 2.0					
Ethernet			Intel® I211 controller				
Storage			TA 6Gb/s HDD/SSD bay (RAID 0/1/5/10 s M.2 2280 PCIe Gen 3.0 x4 NVMe™ SSE				
I/O Ports and Switches	2 x 6 x 2 x	1 x HDMI output 2 x GbE LAN 1 x AC power in Inlet 6 x USB 3.1 Gen 1 (5Gb/s) Type-A 2 x RS-232 DB-9 type AT/ATX mode switch 1 x Mic in Reset button					
Expansion Slots		2 x PCle 3.0 by 8 (by 16 slot) 2 x PCle 3.0 by 4 (maximum card size supported: 68 mm x 167 mm)					
Thermal Solution		Smart Fan					
Power Supply	1. 2 - Inj - Oi 2. 3 - Inj - Oi	AC input ATX power supply 1. 250W power supply - Input: 115VAC~230VAC, 50/60Hz - Output (max.): 3.3V@12A, 5V@14A, 12V@25A, -12V@0.3A,+5Vsb@3A 2. 350W power supply (Build to Order) - Input: 115VAC~264VAC, 50/60Hz - Output (max.): 3.3V@14A, 5V@16A, 12V@29A, -12V@0.3A,+5Vsb@3A -Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87%					
Watchdog Timer		Software Programmable support 1~255 sec. system reset					
IP Rating		IP66-rated front panel					
Chassis Const	ruction	Metal Housing					
Mounting	R	Rack/Panel Mount Panel Mount					
Construction		Front Bezel : Cyan-blue (PSM 296C), Others: Black C					
Cut-out dimens (LxDxH) (mm)	sions	447.8 x 267.2 533 x 341 577					
Dimensions (Lz (mm)	(DxH) 469	0.8 x 289.2 x 120.8	600 x 356.6 x 119				
Operating Tem	perature	-20°C \sim 50°C (with SSD and up to TDP 65W processor) -20°C \sim 40°C (with HDD or add-on cards without fan)					
Storage Tempe	erature	-30°C ~ 60°C					
Environmental Operating Hum	idity	5% ~95%, non-condensing					
Vibration		5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak					
Shock		10G acceleration part to part (11ms)					

Ordering Information

Part No.	Description
PPC-F15C-Q370-P/PC/25-R10	15" 450cd/m² 1024 x768 Al modular Panel PC , Intel® Pentium® Gold G5400T Processor (2-core, 4-thread, 3.10 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-F15C-Q370-i3/PC/25-R10	15" 450cd/m² 1024 x768 AI modular Panel PC, Intel® Core™ i3-8100T Processor (4-core, 4-thread, 3.10 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-F15C-Q370-i5/PC/25-R10*	15" 450cd/m² 1024 x768 AI modular Panel PC, Intel® Core™ i5-8500T Processor (6-core, 6-thread, 2.1 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-F15C-Q370-i7/PC/25-R10*	15" 450cd/m² 1024 x768 AI modular Panel PC, Intel® Core™ i7-8700T Processor (6-core,12-thread,2.4 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-F17C-Q370-P/PC/25-R10	17" 350 cd/m² 1280 x 1024 Al modular Panel PC, Intel® Pentium® Gold G5400T Processor (2-core, 4-thread, 3.10 GHz) TDP 35 W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250 W PSU, R10
PPC-F17C-Q370-i3/PC/25-R10	17" 350cd/m² 1280 x 1024 AI modular Panel PC, Intel® Core™ i3-8100T Processor (4-core, 4-thread, 3.10 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-F17C-Q370-i5/PC/25-R10*	17" 350cd/m² 1280 x 1024 AI modular Panel PC, Intel® Core™ i5-8500T Processor (6-core, 6-thread, 2.1 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-F17C-Q370-i7/PC/25-R10*	17" 350cd/m² 1280 x 1024 AI modular Panel PC, Intel® Core™ i7-8700T Processor (6-core,12-thread,2.4 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-FW15C-Q370-P/PC/25-R10	$15.6"400cd/m^21366x768AlmodularPanelPC,Intel\&Pentium\&GoldG5400TProcessor(2-core,4-thread,3.10GHz)TDP35W,twoPClex4andtwoPClex8slots,fourHDDbays,250WPSU,R10$
PPC-FW15C-Q370-i3/PC/25-R10	15.6" 400 cd/m² 1366 x 768 Al modular Panel PC, Intel® Core™ i3-8100T Processor (4-core, 4-thread, 3.10 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-FW15C-Q370-i5/PC/25-R10*	15.6" 400cd/m² 1366 x 768 Al modular Panel PC, Intel® Core™ i5-8500T Processor (6-core, 6-thread, 2.1 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-FW15C-Q370-i7/PC/25-R10*	15.6" 400 cd/m² 1366×768 Al modular Panel PC, Intel® Core™ i7-8700T Processor (6-core,12-thread,2.4 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-FW19C-Q370-P/PC/25-R10	$18.5 \pm 400 \text{cd/m}^2 + 1366 \times 768 \text{ Al modular Panel PC, Intel® Pentium} \\ \text{ Gold G5400T Processor (2-core, 4-thread, 3.10 GHz) TDP } \\ \text{35W, two PCle x4 and two PCle x8 slots, four HDD bays, 250W PSU, R10} \\ \text{18.5} \pm 200 \times 100 \\ \text{19.5} \pm 200 \times 100 \\ 19.5$
PPC-FW19C-Q370-i3/PC/25-R10	18.5" 400 cd/m² 1366 x 768 Al modular Panel PC, Intel® Core™ i3-8100T Processor (4-core, 4-thread, 3.10 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10"
PPC-FW19C-Q370-i5/PC/25-R10*	18.5" 400 cd/m² 1366 x 768 Al modular Panel PC, Intel® Core™ i5-8500T Processor (6-core, 6-thread, 2.1 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-FW19C-Q370-i7/PC/25-R10*	18.5" 400cd/m² 1366 x 768 Al modular Panel PC, Intel® Core™ i7-8700T Processor (6-core,12-thread,2.4 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-FW22C-Q370-P/PC/25-R10	21.5" 250cd/m² 1920 x 1080 AI modular Panel PC, Intel® Pentium® Gold G5400T Processor (2-core, 4-thread, 3.10 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-FW22C-Q370-i3/PC/25-R10	$21.5"\ 250cd/m^2\ 1920\ x\ 1080\ AI\ modular\ Panel\ PC,\ Intel®\ Core^{\tau_M}\ i3-8100T\ Processor\ (4-core,\ 4-thread,\ 3.10\ GHz)\ TDP\ 35W,\ two\ PCIe\ x4\ and\ two\ PCIe\ x8\ slots,\ four\ HDD\ bays,\ 250W\ PSU,\ R10$
PPC-FW22C-Q370-i5/PC/25-R10*	21.5" 250cd/m² 1920 x 1080 AI modular Panel PC, Intel® Core™ i5-8500T Processor (6-core, 6-thread, 2.1 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-FW22C-Q370-i7/PC/25-R10*	21.5" 250cd/m² 1920 x 1080 AI modular Panel PC, Intel® Core™ i7-8700T Processor (6-core,12-thread,2.4 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-FW24C-Q370-P/PC/25-R10	23.8" 250cd/m² 1920 x 1080 Al modular Panel PC, Intel® Pentium® Gold G5400T Processor (2-core, 4-thread, 3.10 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10"
PPC-FW24C-Q370-i3/PC/25-R10	23.8" 250cd/m² 1920 x 1080 AI modular Panel PC, Intel® Core™ i3-8100T Processor (4-core, 4-thread, 3.10 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10"
PPC-FW24C-Q370-i5/PC/25-R10*	23.8" 250cd/m² 1920 x 1080 AI modular Panel PC, Intel® Core™ i5-8500T Processor (6-core, 6-thread, 2.1 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10
PPC-FW24C-Q370-i7/PC/25-R10*	23.8" 250cd/m² 1920 x 1080 AI modular Panel PC, Intel® Core™ i7-8700T Processor (6-core,12-thread,2.4 GHz) TDP 35W, two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10"

^{*}Build to order
**350W AC PSU models are by build-to-order manufacturing

Options

Item	PPC-F15C	PPC-FW15C	PPC-F17C	PPC-FW19C	PPC-FW22C	PPC-FW24C
Panel Mount Kit	FPK-12-R10	FPK-14-R10	FPK-13-R10	FPK-13-R10	FPK-13-R10	FPK-14-R10
Rack Mount Kit	FRK15C-R10	FRKW15C-R10	FRK17C-R10	FRKW19C-R10	N.A.	N.A.

Packing List

Item	Q'ty	Description
44013-030041-RS	16	Flat head screws for HDD bracket, M3*4
32702-000200-100-RS	1	European power cord, 1830mm

