

PPC-324W TGL

23.8" Fanless Panel PC with Intel® Core™ i7/i5/i3 Processor

Preliminary



Features

- Industrial-grade 23.8" LCD panel with 30k backlight lifetime
- True-flat touchscreen with multi-touch projected capacitive control
- High-performance, fanless 11th generation Intel® Core™ i processor
- Dual channel memory slots, max 64G
- Compact, fanless design with aluminum alloy enclosure
- IP66-rated front panel
- Supports dual displays (1 x external HDMI)
- 1 x M.2 bay (2242/2280 NVME or SATA Interface) for storage and support SATA RAID 0, 1
- 1 x 2500BASE-T Ethernet Supports Time-Sensitive Network(TSN) technology
- Supports VESA 100
- Support TPM2.0 hardware security
- Supports Type C (USB only)



Introduction

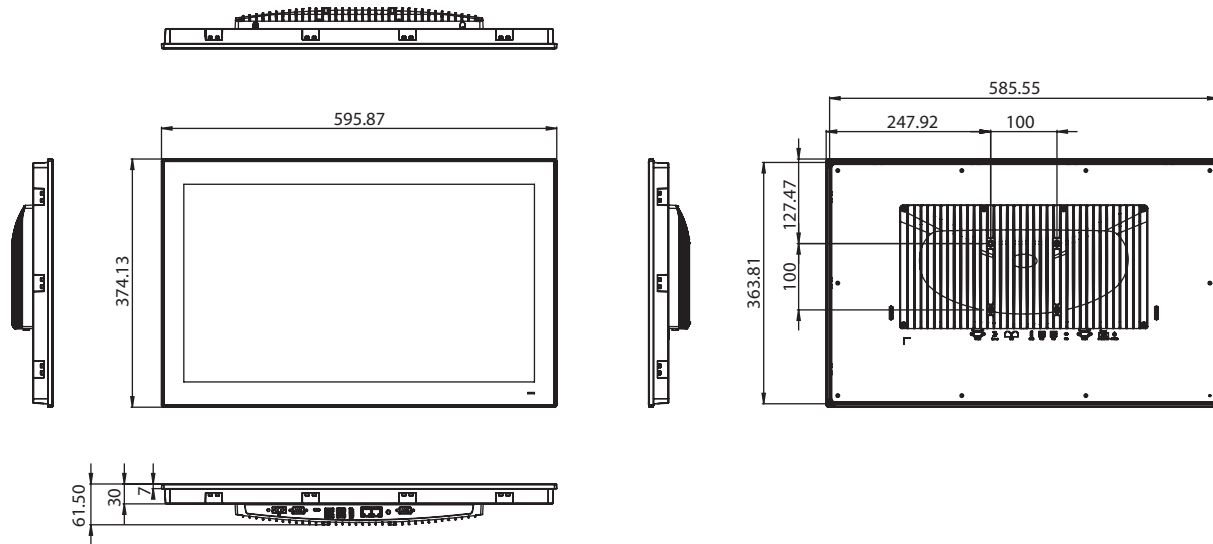
PPC-324W TGL is an 23.8" Fanless Panel PC equipped Intel 11th Gen Core i7/i5/i3, providing high computing performance with robust aluminum alloy enclosure. It also leverages M.2 M key NVMe PCIe to accommodate extremely high data rate and low latency advantage. PPC-324W TGL features 3 x USB 3.2, 2 x series ports and 1 x HDMI for flexible access and connection. The PPC-324W TGL is an excellent solution to enable quick data capture, processing and data digitalization in various industrial applications.

Specifications

System	CPU	i3-1115G4E	i5-1145G7E	i7-1185G7E
	Cores	Dual Core	Quad Core	Quad Core
	Frequency	2.2GHz; 3.90GHz with turbo boost	1.5 GHz; 4.1 GHz with turbo boost	1.8 GHz; 4.4 GHz with turbo boost
	Cache	6 MB	8 MB	12 MB
	TDP	15W	15W	15W
	Memory	2 x SO-DIMM DDR4 3200MHz (max. 32GB x 2)		
	Storage	1 x 2.5" SATA bay 1 x M.2 bay (2242/2280 NVME or SATA Interface) for storage and support SATA RAID 0, 1		
	Network (LAN)	1 x Intel I219LM controller; Speed: 10M / 100M / 1000M 1 x Intel I225LM controller; Speed: 10M / 100M / 1000M / 2500M		
	I/O	2 x Serial ports: 1 x RS-232, 1 x RS-232/422/485(Adjustable through BIOS) 3 x USB 3.2, 1 x USB 2.0, 2 x USB 2.0 (internal), 1 x Type C (USB only) 1 x HDMI1.4 1 x TPM 2.0 1 x Line out		
	Speaker	2 x 1W		
Expansion	1 x M.2 2230 E-key for wireless card			
Watchdog Timer	255 timer levels, set up by software			
Physical Characteristics	Dimensions	595.9 x 347.1 x 61.5 mm (23.5" x 14.7" x 2.4")		
	Weight	8.7kg (19.18lb)		
OS Support	OS Support	Microsoft® Win 10 IOT LTSC (64-bit), Win11, Linux		
Power Consumption	Input Voltage	12 ~ 24 V _{DC}		
	Power Consumption	80W (Burn-in test 8.1 in Windows 10 64-bit)		
LCD	Display Type	23.8" LCD (LED backlight)		
	Resolution	1920 x 1080		
	Viewing Angle	89(left), 89(right), 89(up), 89(down)		
	Luminance (cd/m ²)	350		
	Contrast Ratio	1000		
	Backlight Lifetime	30,000 hr (min.)		
	Touchscreen	Touch Type	10-point multi-touch projected capacitive	
Light Transmission		≥88%		
Controller		USB interface		
Environment	Operating Temperature	0 ~ 50 °C (32~122 °F)		
	Storage Temperature	-20 ~ 60 °C (-4 ~ 140 °F)		
	Relative Humidity	95% @ 40 °C (non-condensing)		
	Shock	Operating 10 G peak acceleration (11 ms duration), follow IEC 60068-2-27		
	Vibration	Operating Random Vibration Test 5 ~ 500Hz, 2Grms @with SSD, follow IEC 60068-2-64		
	EMC	CE, FCC Class B, BSMI, VCCI, UKCA, EN60601-1-2		
	Safety	CB, UL, CCC, UKCA		
Front Panel Protection	IP66 compliant			

Dimensions

Unit: mm

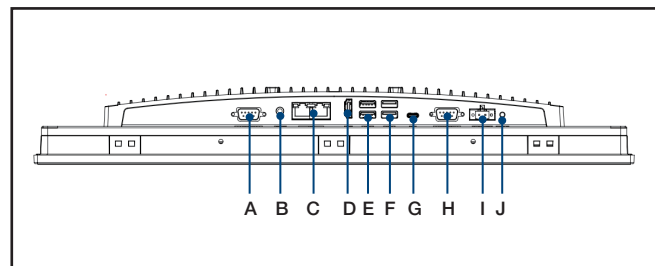


Panel Cutout Dimensions: 586.5 x 364.8 mm (23.09 x 14.36 in)

Ordering Information

Part Number	Description
PPC-324W-PB5A	23.8" PPC w/Intel i5-1145G7E, P-Cap
PPC-324W-PB3A	23.8" PPC w/Intel i3-1115G4E, P-Cap
PPC-324W-PB7A	23.8" PPC w/Intel i7-1185G7E, P-Cap
96PSA-A150W19P2-4	Power adapter 100-240V 150W 19V
PPC-WLAN-D2	M.2, WiFi6 +BT5.2, 2T2R, w/Antenna
PPC-ARM-A03	ARM VESA Standard for PPC series
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-Stand-A1E	Stand for PPC series
1702002600	Power Cable UL/CSA (USA) 180D 125V10A 1.83M
1702002605	Power Cable 90D 220V EUROPEAN 250V/6A 1.8M
1700000237	Power Cord PSE 3P 12A 125V 183cm
96CB-POWER-B-1.8MA	Power code 3P CCC(China) 1.8M
98R3P300010	PPC-300 RFID Read only 13.56MHz&125k

I/O View



- A. COM2: 1 x RS-232/422/485
- B. 1 x Line out
- C. 2 x LAN
- D. 1 x HDMI 1.4
- E. 1 x USB 2.0, 1 x USB 3.2
- F. 2 x USB 3.2
- G. 1 x Type C (USB only)
- H. COM1: RS-232
- I. DC In
- J. Power Button

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries. Please contact Advantech for certificate compliance.