

PPC-315W TGL PPC-318W TGL PPC-321W TGL PPC-324W TGL

15.6"/18.5"/21.5"/23.8" Fanless Panel PC with Intel® Core™ i7/i5/i3 Processor



Features

- Industrial-grade LCD panel with 50k 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 (on board as default)
- Supports Type C (USB only)



Introduction

PPC-300W TGL is an 15.6"/18.5"/21.5"/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-300W TGL features 3 x USB 3.2, 2 x series ports and 1 x HDMI for flexible access and connection. The PPC-300W 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/8 MB
	TDP	15W
	Memory	2 x SO-DIMM DDR4 3200MHz (max. 32GB x 2)
	Storage	1 x 2.5" SATA bay 1 x M.2 bay (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 I226LM 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 Line out
	Speaker	2 x 1W
	Expansion	1 x M.2 2230 E-key for wireless card
	Security	1 x TPM2.0 (on board as default)
	Watchdog Timer	255 timer levels, set up by software

Model		PPC-315W TGL	PPC-318W TGL	PPC-321W TGL	PPC-324W TGL
Physical Characteristics	Dimensions	419.7 x 269.0 x 62.1 mm (16.5 x 10.6 x 2.4 in)	488 x 309 x 61.7 mm (19.2 x 12.1 x 2.4 in)	558.4 x 349.8 x 62.2 mm (21.9 x 13.7 x 2.4 in)	595.9 x 347.1 x 61.5 mm (23.5 x 14.7 x 2.4 in)
	Weight	4.8 kg (10.67 lb)	5.7 kg (12.56 lb)	6.6 kg (14.6 lb)	8.6kg (18.96lb)
OS Support	OS Support	Microsoft® Win 10 IOT LTSC (64-bit), Win11, Linux			
Power Consumption	Input Voltage	12 ~ 30 V _{DC}			
	Power Consumption	70W (Burn-in test 8.1 in Windows 10 64-bit)	70W (Burn-in test 8.1 in Windows 10 64-bit)	75W (Burn-in test 8.1 in Windows 10 64-bit)	80W (Burn-in test 8.1 in Windows 10 64-bit)

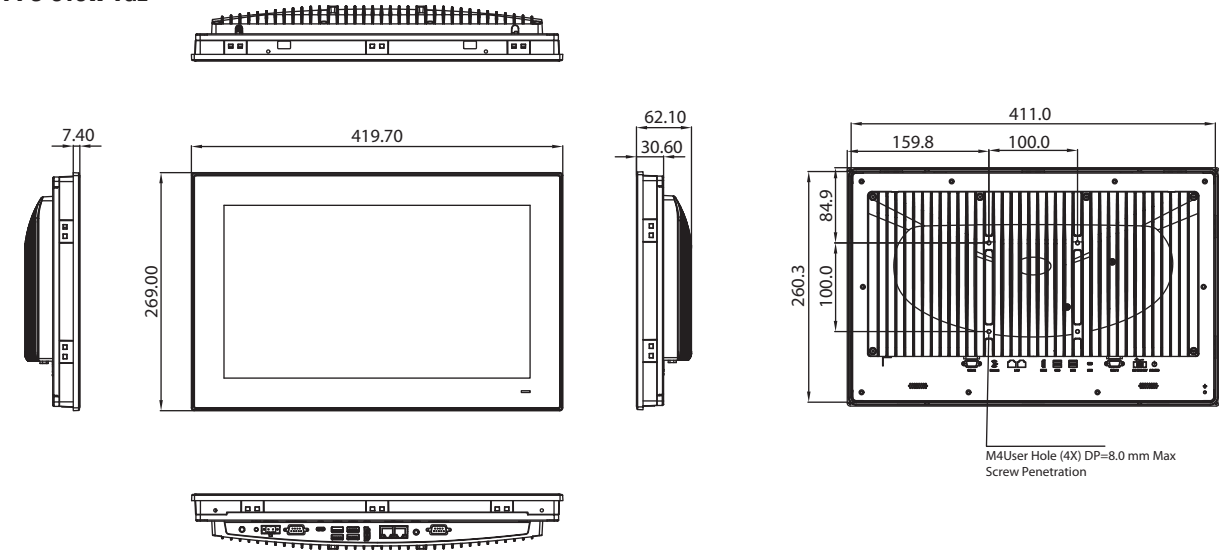
Specifications (Cont.)

LCD	Display Type	15.6" FHD LCD (LED backlight)	18.5" LCD (LED backlight)	21.5" TFT LCD (LED backlight)	23.8" LCD (LED backlight)
	Resolution	1920 x 1080	1366 x 768	1920 x 1080	1920 x 1080
	Viewing Angle	89(left), 89(right), 89(up), 89(down)	85(left), 85(right), 80(up), 80(down)	89 (left), 89 (right), 89 (up), 89 (down)	89(left), 89(right), 89(up), 89(down)
	Luminance (cd/m2)	450	450	250	350
	Contrast Ratio	800	1000	1000	1000
	Backlight Lifetime	50,000 hr (min.)	50,000 hr (min.)	50,000 hr (min.)	30,000 hr (min.)
Touchscreen	Touch Type	10-point multi-touch projected capacitive			
	Light Transmission	≥88%			
	Controller	USB interface			
Environment	Operating Temperature	-10 ~ 50 °C (14~122 °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

PPC-315W TGL

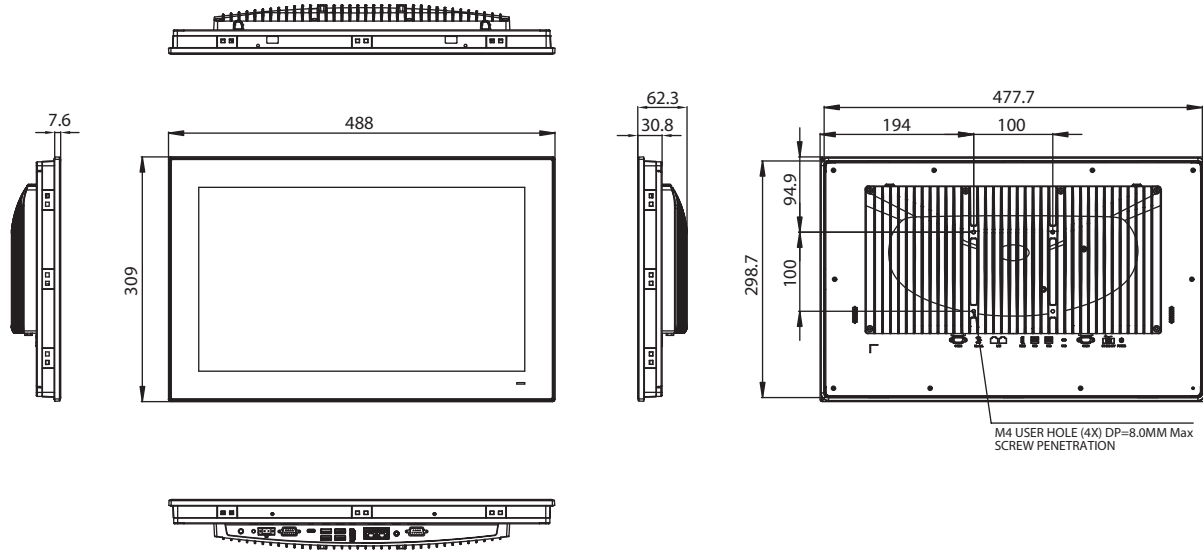


Panel Cutout Dimensions: 413 x 262 mm (16.25 x 10.31 in)

Dimensions

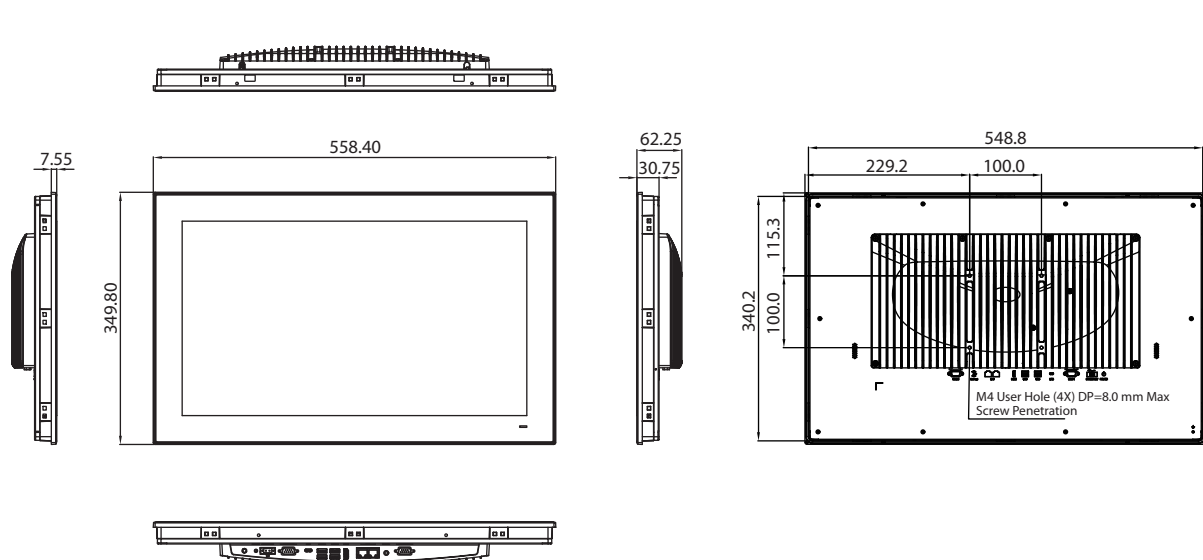
Unit: mm

PPC-318W TGL



Panel Cutout Dimensions: 479.3 x 300.3 mm (18.87 x 11.82 in)

PPC-321W TGL



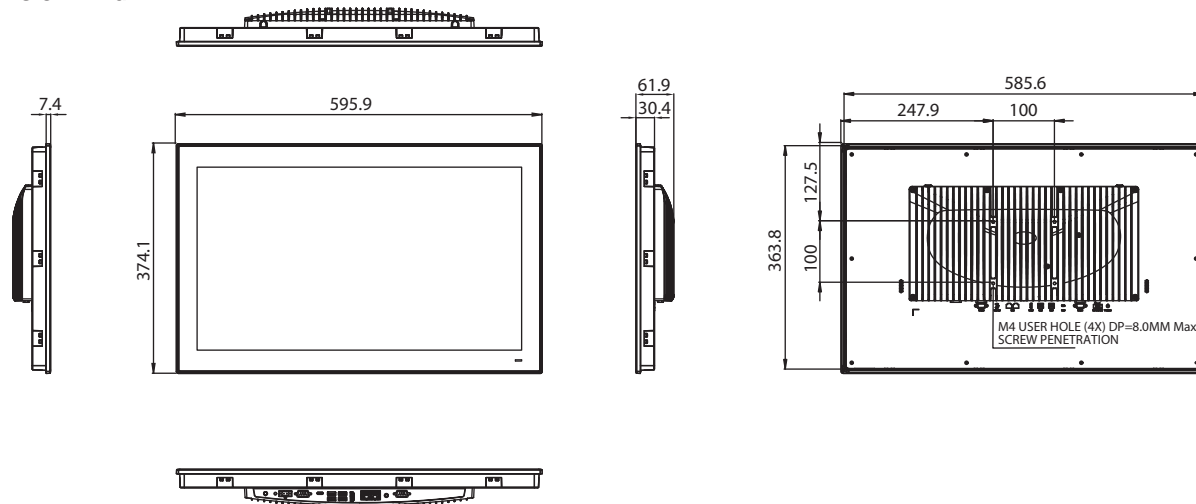
Panel Cutout Dimensions: 550.3 x 341.8 mm (21.66 x 13.45 in)

PPC-315W TGL PPC-318W TGL PPC-321W TGL PPC-324W TGL

Dimensions

Unit: mm

PPC-324W TGL

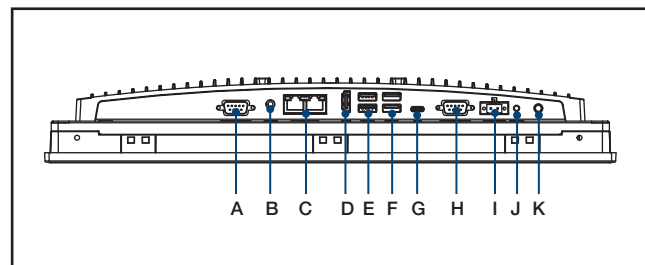


Panel Cutout Dimensions: 586.5 x 364.8 mm (23.09 x 14.36 in)

Ordering Information

Part Number	Description
PPC-315W-PB50A	15.6" PPC w/Intel i5-1145G7E, P-Cap
PPC-315W-PB30A	15.6" PPC w/Intel i3-1115G4E, P-Cap
PPC-315W-PB70A	15.6" PPC w/Intel i7-1185G7E, P-Cap
PPC-318W-PB5A	18.5" PPC w/Intel i5-1145G7E, P-Cap
PPC-318W-PB3A	18.5" PPC w/Intel i3-1115G4E, P-Cap
PPC-318W-PB7A	18.5" PPC w/Intel i7-1185G7E, P-Cap
PPC-321W-PB50A	21.5" PPC w/Intel i5-1145G7E, P-Cap
PPC-321W-PB30A	21.5" PPC w/Intel i3-1115G4E, P-Cap
PPC-321W-PB70A	21.5" PPC w/Intel i7-1185G7E, P-Cap
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-A120W24T2-4	Power adapter 100-240V 120W 24V
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
- K. Pre cut hole for power button cable extend