

# PPC-415W

## 15.6" Fanless Widescreen Panel PC with Intel® 13th Gen Core™ i7/i5/i3 Processor



### Features

- 15.6" true-flat Full HD LCD panel with projected capacitive touchscreen, anti-glare coating
- Intel® Core™ i7-1365URE/i5-1345URE/i3-1315URE processor with fanless system design
- Supports PCIe x4 or PCI expansion
- 1 x isolated RS-422/485 with auto flow
- Wide input power range (9 ~ 32 V<sub>DC</sub>)
- Dual 2500BASE-T Ethernet Supports Time-Sensitive Network(TSN) technology
- 3 x Independent displays
- 1 x M.2 bay (2242/2280) for storage only
- Support TPM2.0 hardware security
- Supports VESA 100 mounting interface



### Introduction

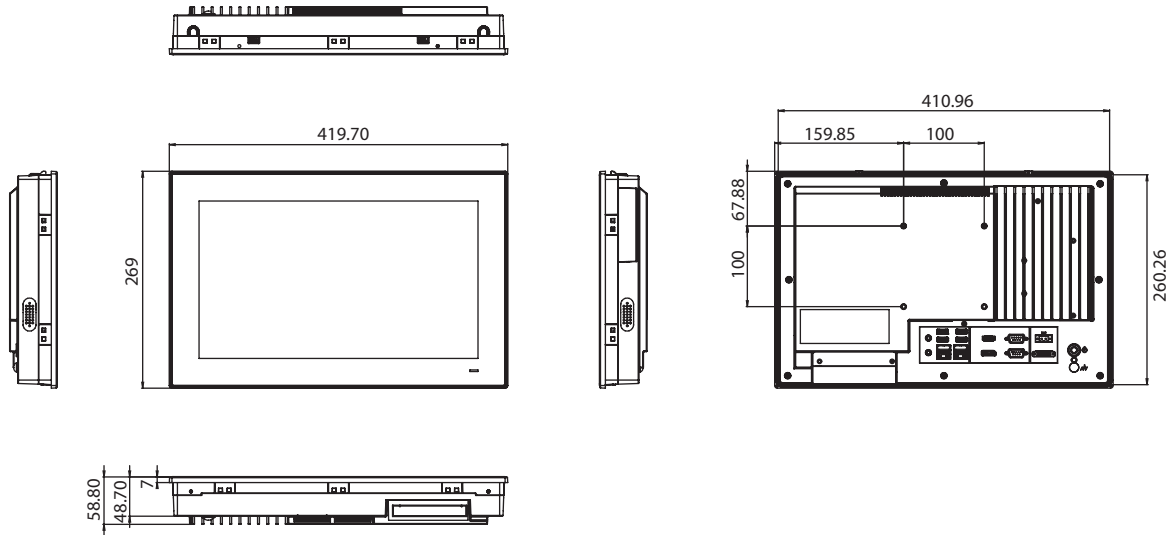
Designed for high-performance computing 13th gen applications, PPC-415W with a 15.6" FHD provides a superior human-machine interface and reliability, with multi-touch screen, rich I/O and aluminum alloy front bezel. The inclusion of PCIe/PCI slot for fieldbus or proprietary card expansion increases the system's compatibility for diverse applications. In addition, Time Sensitive Network(TSN)configuration integrated allows more possibilities for optimized industrial applications

### Specifications

	CPU	i7-1365URE	i5-1345URE	i3-1315URE
<b>System</b>	Core	10	10	6
	Frequency	1.70 GHz upto 4.9 GHz with Turbo	1.40 GHz upto 4.6 GHz with Turbo	1.20 GHz upto 4.5 GHz with Turbo
	Cache	12 MB Intel® Smart Cache	12 MB Intel® Smart Cache	10 MB Intel® Smart Cache
	Memory	2 x SODIMM, DDR5 4800, max. 32GB x 2		
	Storage	1 x 2.5" SATA bay (Max. 7mm) 1 x M.2 2242/2280 M Key slot for Storage (SATA or NVME PCIe x 4 , support SATA RAID)		
	Network (LAN)	2 x Intel I226LM controller; Speed: 10M / 100M / 1000M / 2.5G		
	I/O	5 x Serial ports: 2 x RS-232, 1 x RS-422/485 with 1K VDC isolation, 2 x RS-232 (on right side optional) 3 x USB3.2, 1 x USB2.0 1 x Line-Out, 1 x Mic-In 1 x HDMI 1.4 1 x DisplayPort (1.4a) 1 x 8bit GPIO (optional)		
	Expansion	1 x M.2 2230 E Key slot for wireless card 1 x PCIe x 4 ; 1 x PCI (optional)		
	Watchdog Timer	255 timer levels, set up by software		
	Security	1 x TPM2.0		
Speaker	2 x 1W			
<b>Physical Characteristics</b>	Dimensions	419.7 x 269 x 59 mm (16.5 x 10.6 x 2.3 in)		
	Enclosure Front bezel	Die cast aluminum alloy Rear: PC+ABS		
	Mounting	Panel / VESA (100)		
	Weight	5.4kg (11.9 lb)		
<b>OS Support</b>	OS Support	Microsoft® Windows 11 (64-bit), Win 10 IOT LTSC, Linux		
<b>Power Consumption</b>	Input Voltage	9 ~ 32 V <sub>DC</sub>		
	Power Consumption	i5-1345URE Typ.70W Max.105W (Burn-in test 8.1 in Windows 10 64bit)		
<b>LCD</b>	Display Type	15.6" TFT LCD (LED backlight)		
	Max. Resolution	1920 x 1080		
	Viewing Angle	89(left), 89(right), 89(up), 89(down)		
	Luminance (cd/m <sup>2</sup> )	450		
	Contrast Ratio	800		
	Backlight Lifetime	50,000 hr (min.)		
<b>Touchscreen</b>	Touch Type	Multi-touch projected capacitive		
	Light Transmission	88 % ± 2 %		
	Controller	USB interface		
<b>Environment</b>	Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)		
	Storage Temperature	-40 ~ 60 °C (-40 ~ 140 °F)		
	Relative Humidity	95% @ 40 °C (Non-Condensing)		
	Shock	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27		
	Vibration	Operating Random Vibration Test 5 ~ 500Hz, 2Grms @with SSD, Follows IEC 60068-2-64		
	EMC	CE, FCC Class B, EN 61000-6-2, BSMI, UKCA		
	Safety	CB, UL, CCC, UKCA		
Front Panel Protection	IP66 compliant			

## Dimensions

Unit: mm

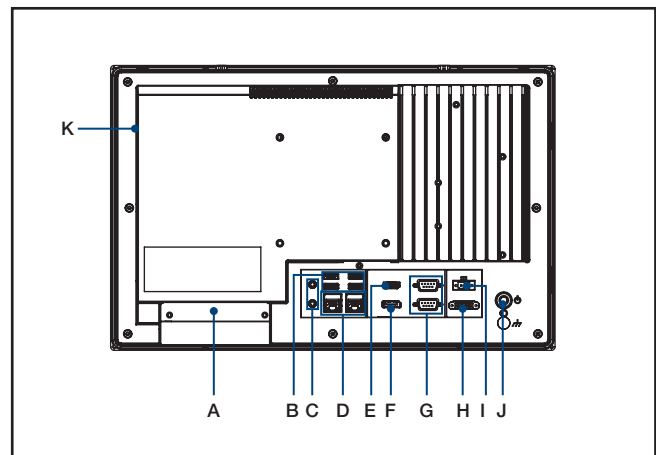


**Panel Cutout Dimensions: 413 x 262 mm (16.25 x 10.31 in)**

## Ordering Information

Part Number	Description
PPC-415W-PD3A	15.6" PPC w/Intel i3-1315URE, P-CAP
PPC-415W-PD5A	15.6" PPC w/Intel i5-1345URE, P-CAP
PPC-415W-PD7A	15.6" PPC w/Intel i7-1365URE, P-CAP
96PSA-A120W24T2-4	Power adapter 100-240V 120W 24V
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
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-STAND-A1E	Stand for PPC series
PPC-ARM-A03	ARM VESA Standard for PPC series
PPC-WLAN-D2	M.2, WiFi6 +BT5.2, 2T2R, w/Antenna
98R3P321100	Additional ports module (either two RS-232 or one RS-232 and one GPIO port)
989KB01001E	PClex1 to PCI riser card

## I/O View



- |   |  |
|---|--|
| A. 1 x Expansion slot (PCIe x 4 or PCI) | G. 2 x RS-232                          |
| B. 3 x USB3.2, 1 x USB2.0               | H. 1 x Isolated RS-422/485             |
| C. 1 x Mic-In/Line-Out                  | I. 1 x DC inlet and AT/ATX switch      |
| D. 2 x Intel Gigabit Ethernet           | J. 1 x Power button                    |
| E. 1 x HDMI                             | K. 2 x RS-232 (on right side optional) |
| F. 1 x DisplayPort                      |  |