

PPC-3151W

15.6" Fanless Widescreen Panel PC with Intel® 7th Gen Core™ i7/i5/i3 Processor



Features

- 15.6" true-flat Full HD LCD panel with projected capacitive touchscreen, anti-glare coating
- Intel® Core™ i5-7300U/i7-7600U/i3-7100U(by request) 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_{DC})
- Dual Gigabit Ethernet with IEEE1588 support
- 3 x Independent displays
- 1 x M.2 B key bay (2242) for storage and support SATA RAID 0/1
- 1 x TPM 2.0 internal support (optional)
- Supports VESA 100 mounting interface



Introduction

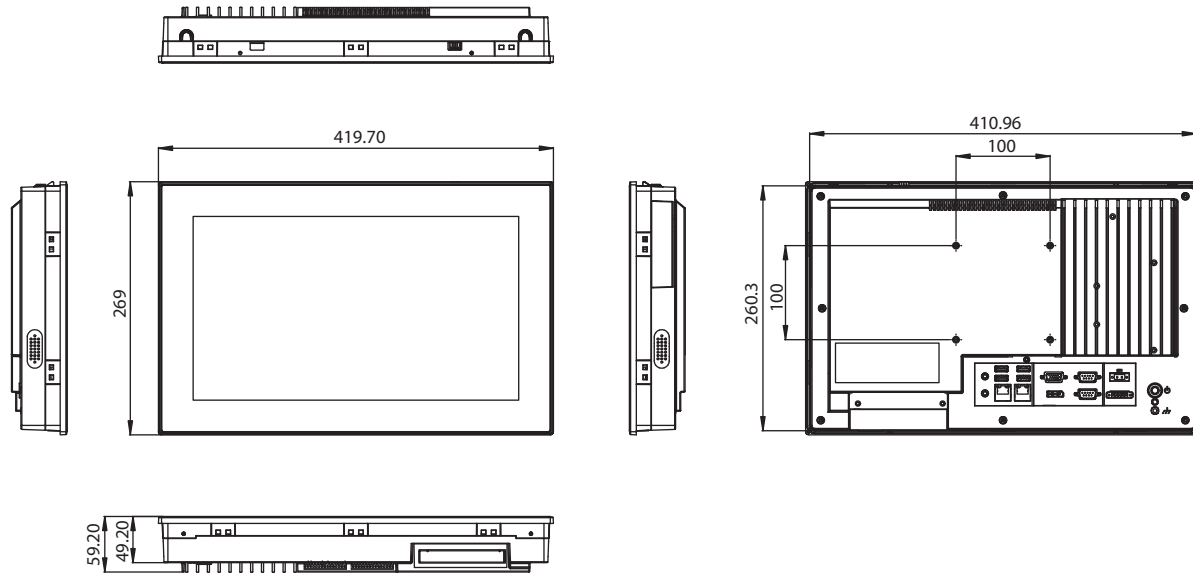
PPC-3151W is a new generation industrial interactive panel PC with a 15.6" TFT full HD LCD 1920 x 1080 resolution, which features a flat, sleek design to greatly reduce maintenance effort. Pre-installed Intel® Core™ i processor and designed fanless architecture, PPC-3151W provide high performance and reliable system for factory automation or variety of industrial applications. Furthermore, with the provision of multiple I/O, dual Intel® Gigabit ethernet, PCI/PCIe expansion, PPC-3151W ensures easy integration and connectivity.

Specifications

System	CPU	Intel® Core™ i7-7600U/i5-7300U dual core; i3-7100U (by request!)
	Frequency	2.6 GHz, up to 3.5 GHz with turbo
	L2 Cache	3 MB
	Memory	1 x SODIMM DDR4 1866/2133 MHz, (max. 16 GB)
	Storage	1 x 2.5" SATA bay 1 x M.2 2242 B Key slot for Storage(SATA or NVME interface),support SATA RAID 0/1
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet (Intel I219LM; Intel I210AT)
	I/O	2 x RS-232, 1 x RS-422/485 with 1K V _{DC} isolation Either 2 x RS-232 or 1 x RS-232 + 1 x GPIO (TTL, 8 pin programmable) on right side (optional module) 4 x USB 3.0 1 x Line-out, 1 x Mic-in 1 x DB15 VGA 1 x Display Port (1.2) 1 x TPM 2.0 internal(optional)
	Expansion	1 x Mini PCIe 1 x PCIe x 4 (default); 1 x PCI (in the accessory box)
	Watchdog Timer	255 timer levels, set up by software
	Speaker	2 x 1W
Physical Characteristics	Dimensions	419.7 x 269 x 59 mm (16.5 x 10.6 x 2.3 in)
	Weight	5.4kg (11.9 lb)
OS Support	OS Support	Microsoft® Win 10 IOT LTSC(64-bit), Linux
Power Consumption	Input Voltage	9 ~ 32 V _{DC}
	Power Consumption	i5-7300U 65W(Burn-in test 8.1 in Windows 10 64bit)
LCD	Display Type	15.6" TFT LCD (LED backlight)
	Max. Resolution	1920 x 1080
	Viewing Angle	85 (Left), 85 (Right), 85(Up), 85(Down)
	Luminance (cd/m ²)	450
	Contrast Ratio	800
	Backlight Lifetime	50,000 hr (min.)
Touchscreen	Touch Type	Multi-touch projected capacitive
	Light Transmission	88 % ± 2 %
	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), 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

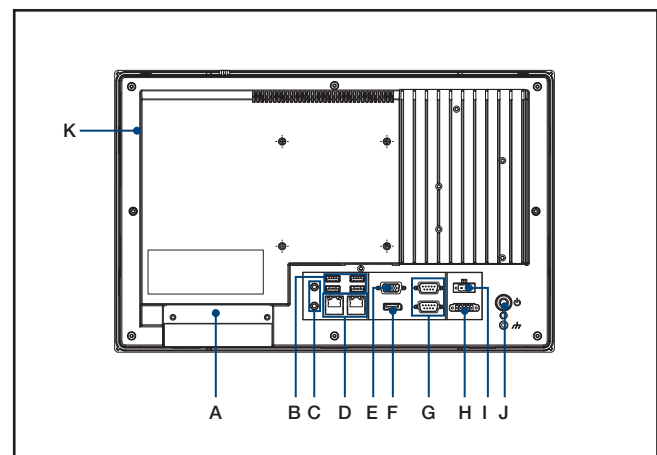


Cut-Out Dimension:413.00 x 262.00 mm

Ordering Information

Part Number	Description
PPC-3151W-P75A	15.6" PPC w/Intel i5-7300U, P-CAP
PPC-3151W-P77A	15.6" PPC w/Intel i7-7600U, P-CAP
96PSA-A90W190T-3	Power adapter 100-240V 90W 19V
1700001524	POWER Cord 3P UL 10A 125V 180cm
170203183C	POWER Code 3P Europe (WS-010+083)183cm
1700008921	POWER CORD 3P/3P POWER SUPPLY 1.8M PSE
96CB-POWER-B-1.8MB	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-D1	M.2, WiFi6 +BT5.2, 2T2R, w/Antenna, Mini PCIe adapter
98R3P321100	Additional ports module(either two RS-232 or one RS-232 and one GPIO port)
98R3P321110	TPM 2.0 module

I/O View



- A. 1 x Expansion slot (PCI or PCIe x4)
- B. 4 x USB3.0
- C. 1 x Mic-In/Line-Out
- D. 2 x Intel Gigabit Ethernet
- E. 1 x VGA
- F. 1 x DisplayPort
- G. 2 x RS-232
- H. 1 x Isolated RS-422/485
- I. 1 x DC inlet and AT/ATX switch
- J. 1 x Power button
- K. 2 x RS-232 (on right side optional)

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.