

# PPC-3180SW

## 18.5" Fanless Widescreen Panel PC with Intel® Pentium® N4200 Quad-Core Processor



### Features

- 18.5" true-flat TFT LCD with projected capacitive touch control
- Fanless design with low power consumption
- Supports 1 x internal 2.5" SATA HDD and 1 x mSATA
- Configurable RS-232/422/485 ports via BIOS
- Automatic data flow control over RS-485
- Wide range DC support (12 ~ 24 V<sub>DC</sub>)
- Supports dual displays
- IP66-rated front panel



### Introduction

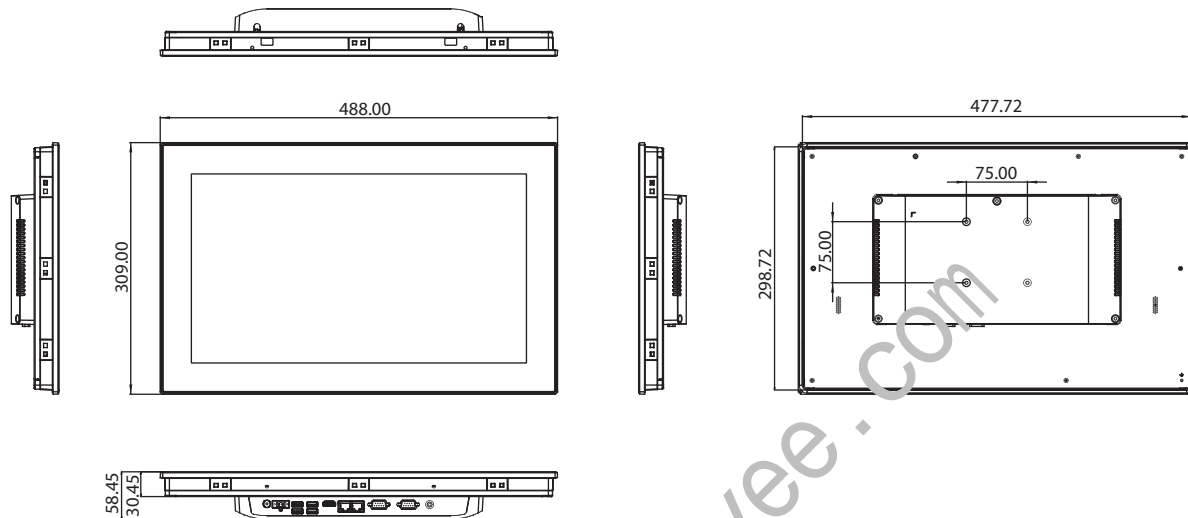
The PPC-3180SW is a high-value, ultra-slim panel PC equipped with a 18.5" WXGA TFT LCD, and low-power Intel® Pentium® N4200 quad-core, 1.1 GHz, processor to provide high-performance computing in a compact and fanless system. For high durability and functionality, the PPC-3180SW features an IP66-rated front panel, multi-touch projected capacitive touchscreen, die cast aluminum alloy enclosure, two serial ports, four USB ports, and two GbE LAN ports, making it suitable for diverse industrial applications.

### Specifications

<b>System</b>	CPU	Intel Pentium® N4200 quad Core
	Frequency	1.1GHz, turbo boost to 2.5GHz
	L2 Cache	3 MB
	Memory	1 x SODIMM, DDR3L 1600/1866, max. 8 GB
	Storage	1 x 2.5" SATA bay (optional; requires a bracket module for installation) 1 x mSATA bay
	Network (LAN)	2 x 10/100/1000 /2500Mbps Ethernet Intel I225LM
	I/O	2 x Serial ports: 1 x RS-232, 1 x RS-232/422/485 2 x USB 3.0, 2 x USB 2.0 1 x Line-out 1 x HDMI
	Expansion	1 x Mini PCIe
	Watchdog Timer	255 timer levels, set up by software
	Speakers	2 x 1W
<b>Physical Characteristics</b>	Dimension	488 x 309 x 58.45 mm (19.21 x 12.16 x 2.3 in)
	Weight	5.4 kg (11.90 lb)
<b>OS Support</b>	OS Support	Microsoft® Windows 10 IOT LTSC(64-bit), Linux
<b>Power Consumption</b>	Input Voltage	12 ~ 24 V <sub>DC</sub>
	Power Consumption	35 W
<b>LCD</b>	Display Type	18.5" TFT LCD (LED backlight)
	Max. Resolution	1366 x 768
	Viewing Angle	85 (Left), 85 (Right), 80 (Up), 80 (Down)
	Luminance (cd/m <sup>2</sup> )	450
	Contrast Ratio	1000
	Backlight Lifetime	50,000 hr (min.)
<b>Touchscreen</b>	Touch Type	Multi-touch projected capacitive
	Light Transmission	90% ± 2%
	Controller	USB Interface
<b>Environment</b>	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, BSMI, EN60601-1-2, UKCA
	Safety	CB, UL, CCC, UKCA
	Front Panel Protection	IP66 compliant

## Dimensions

Unit: mm

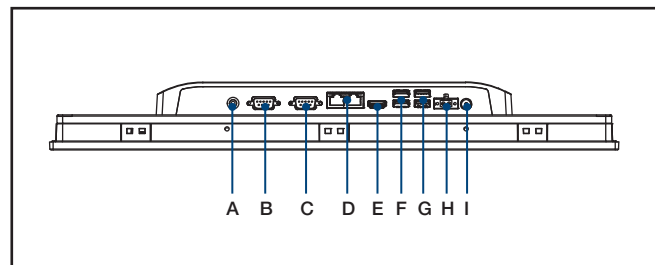


Panel Cutout Dimensions: 479.3 x 307.5 mm (18.87 x 11.82 in)

## Ordering Information

Part Number	Description
PPC-3180SW-PN4B	18.5" PPC w/Intel N4200, P-Cap
96PSA-A90W190T-3	Power adapter 100-240V 90W 12V
1700001524	POWER Cord 3P UL 10A 125V 1.8Mcm
170203183C	POWER Code 3P Europe (V'S-01)+083)183 cm
1700008921	POWER CORD 3P/3P POWER SUPPLY 1.8 M 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
PPC-HDD-N4200	HDD Bracket module for PPC-3150SW and PPC-3180SW and PPC-324W-PN4
98R3P300010	PPC-300 RFID Read only 13.56MHz&125k

## I/O View



- A. Line out
- B. COM1: RS-232
- C. COM2: RS-232/422/485
- D. 2 x LAN
- E. HDMI
- F. 2 x USB 3.0
- G. 2 x USB 2.0
- H. DC-In
- I. 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.