**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 VDC)
* Supports dual displays
* IP65-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 IP65-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

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| --- | --- | --- |
| **System** | CPU | Intel Pentium® N4200 quad Core |
| Frequency | 1.1GHz, turbo boot to 2.5GHz. |
| L2 Cache | 3 MB |
| Memory | 1 x SODIMM, DDR3L 1600/1866, max. 8 GB |
| Storage | 1 x 2.5" SATA bay 1 x mSATA bay |
| Network (LAN) | 2 x 10/100/1000 Mbps Ethernet (Intel I211-AT) |
| I/O | 2 x Serial ports: 1 x RS-232, 1 x RS-232/422/485 2 x USB 3.0, 2 x USB 2.01 x Line-out1 x HDMI |
| Expansion | 1 x Mini PCIe |
| Watchdog Timer | 255 timer levels, set up by software |
| Speaker | 2 x 1W |
| **Physical Characteristics** | Dimensions | 488 x 309 x 58.45 mm (19.21 x 12.16 x 2.3 in) |
| Weight | 5.4 kg (11.90 lb) |
| **OS Support** | OS Support | Microsoft® Windows 10 (64-bit), Linux, Android |
| **Power Comsumption** | Input Voltage | 12 ~ 24 VDC |
| Power Consumption | 35 W |
| **LCD** | 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/m2) | 450 |
| Contrast Ratio | 1000 |
| Backlight Lifetime | 50,000 hr (min.) |
| **Touchscreen** | Touch Type | Multi-touch projected capacitive |
| Light Transmission | 90% ± 2% |
| Controller | USB Interface |
| **Environment** | Operating Temperature | 0 ~ 50 °C (32 ~ 122 °F) with SSD0 ~ 40 °C (32 ~ 104 °F) with HDD |
| Storage Temperature | -20 ~ 60 °C (-4 ~ 140 °F) |
| Relative Humidity | 10 ~ 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, 1Grms @with HDD; 2Grms @with SSD, Follows IEC 60068-2-64 |
| EMC | CE, FCC Class B, BSMI |
| Safety | CE, UL, CCC, BSMI |
| Front Panel Protection | IP65 compliant |

 **General Panel PCs**

All product specifications are subject to change without notice. Last updated: 1-Apr-2019

# PPC-3180SW

**Ordering Information**

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

477.72

75.00

488.00

Unit: mm

**Dimensions**

58.45

30.45

|  |  |
| --- | --- |
| **Part Number** | **Description** |
| PPC-3180SW-PN4A | 18.5" Wide screen PPC with PCT Multi-touch, Intel Pentium® N4200 Quad-Core |
| 96PSA-A90W19OT-1 | Adapter AC100-240V 90W 19V |
| 1700001524 | POWER Cord 3P UL 10A 125V 180cm |
| 170203183C | POWER Code 3P Europe (WS-010+083)183 cm |
| 1700008921 | POWER CORD 3P/3P POWER SUPPLY 1.8 M PSE |
| 96CB-POWER-B-1.8M | 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 (A-CLEVER) for PPC series |
| PPC-WLAN-C1E | Supports 802.11 a/b/g/n/ac and BT4.1 (2T2R) |
| PPC-HDD-N4200 | HDD Bracket module for PPC-3150SW and PPC-3180SW |

**I/O View**

1. Line out

A B C D E F G H I

1. COM1: RS-232

C. COM2: RS-232/422/485

1. 2 x LAN
2. HDMI
3. 2 x USB 3.0
4. 2 x USB 2.0
5. DC-In
6. Power Button

309.00

298.72

75.00

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