

# PPC-3100S

## 10.4" Fanless Panel PC with Intel® Celeron® N2930 Processor



### Features

- Industrial-grade 10.4" SVGA/XGA TFT LCD with 30K backlight lifetime
- Durable true-flat touchscreen with 5-wire resistive/projected capacitive touch control
- Intel® Celeron® N2930 quad-core, 1.83 GHz, processor
- Up to 8 GB DDR3L SDRAM
- 1 x RS-232, 1 x RS-232/422/485, 2 x USB 2.0, and 1 x USB 3.0
- Compact, fanless design with solid aluminum alloy enclosure and IP65-rated front panel
- Supports E-Eye monitoring and protection
- Supports expansion via full-size mini PCIe
- Supports Windows Embedded and Android OS
- Supports VESA 75 x 75 mounting holes



### Introduction

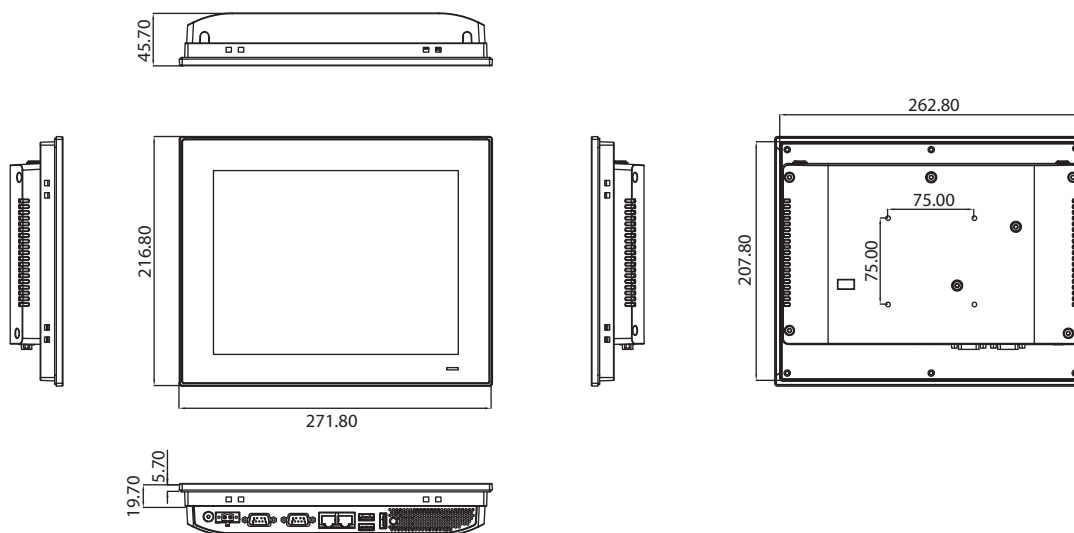
The PPC-3100S is a high-value, ultra-slim panel PC equipped with a 10.4" SVGA/XGA TFT LCD, and low-power Intel® Celeron® N2930, 1.83 GHz, processor to provide high-performance computing in a compact and fanless system. For high durability and functionality, the PPC-3100S features an IP65-rated front panel, true-flat touchscreen with 5-wire resistive/projected capacitive touch, two serial ports, three USB ports, and two GbE LAN ports, making it suitable for diverse industrial applications. To provide further system monitoring and protection capabilities, e-Eye technology is provided at the rear of the panel PC for indicating the system operating status to facilitate detection and analysis.

### Specifications

|                          |                                | PPC-3100S-RAE                                                                                                                                                             | PPC-3100S-PBE                             |
|--------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| System                   | CPU                            | Intel® Celeron® N2930 quad core                                                                                                                                           |                                           |
|                          | Frequency                      | 1.83 GHz                                                                                                                                                                  |                                           |
|                          | L2 Cache                       | 2 MB                                                                                                                                                                      |                                           |
|                          | Memory                         | 1 x SODIMM DDR3L 1333 MHz (max. 8 GB)                                                                                                                                     |                                           |
|                          | Storage                        | 1 x 2.5" SATA Bay bay (optional; requires a bracket module for installation)<br>1 x mSATA Bay (default)                                                                   |                                           |
|                          | Network (LAN)                  | 2 x 10/100/1000 Mbps Ethernet (Intel 211)                                                                                                                                 |                                           |
|                          | I/O                            | 2 x Serial ports: 1 x RS-232, 1x RS-232/422/485 (Adjustable through BIOS)<br>2 x USB 2.0, 1 x USB 3.0 (for PPC-3100S-RAE)<br>1 x USB 2.0, 1 x USB 3.0 (for PPC-3100S-PBE) |                                           |
|                          | Expansion                      | 1 x Full-size mini PCIe slot                                                                                                                                              |                                           |
|                          | Watchdog Timer                 | 255 timer levels, set up by software                                                                                                                                      |                                           |
| Physical Characteristics | Dimensions                     | 272 x 217 x 46 mm (10.7 x 8.5 x 1.8 in)                                                                                                                                   |                                           |
|                          | Weight                         | 1.9 kg (4.18 lb)                                                                                                                                                          |                                           |
| OS Support               | OS Support                     | Microsoft® Windows 7/8.1/10 (32/64-bit), WES7, WEC7, Linux, Android 4.4                                                                                                   |                                           |
| Power Consumption        | Input Voltage                  | 12 ~ 24 V <sub>DC</sub>                                                                                                                                                   |                                           |
|                          | Power Consumption              | 16W (Burn-in test 7.0 in Windows 7, 32-bit)                                                                                                                               |                                           |
| LCD                      | Display Type                   | 10.4" TFT LCD (LED backlight)                                                                                                                                             | 10.4" TFT LCD (LED backlight)             |
|                          | Resolution                     | 800 x 600                                                                                                                                                                 | 1024 x 768                                |
|                          | Viewing Angle                  | 80 (left), 80 (right), 70 (up), 70 (down)                                                                                                                                 | 88 (left), 88 (right), 88 (up), 88 (down) |
|                          | Luminance (cd/m <sup>2</sup> ) | 400                                                                                                                                                                       | 350                                       |
|                          | Contrast Ratio                 | 700                                                                                                                                                                       | 1200                                      |
|                          | Backlight Lifetime             | 30,000 hr (min.)                                                                                                                                                          | 30,000 hr (min.)                          |
|                          |                                |                                                                                                                                                                           |                                           |
| Touchscreen              | Touch Type                     | ELO 5-wire resistive                                                                                                                                                      | 5-point multi-touch projected capacitive  |
|                          | Light Transmission             | 80±5% at 550nm wavelength                                                                                                                                                 | 88±2%                                     |
|                          | Controller                     | RS232 interface                                                                                                                                                           | USB interface                             |
|                          | Durability/Surface Hardness    | Greater than 35million touches in one location without failure                                                                                                            | Cover glass > 7H                          |
| Environment              | Operating Temperature          | 0 ~ 50 °C (32 ~ 122 °F) with SSD<br>0 ~ 40 °C (32 ~ 104 °F) with HDD                                                                                                      |                                           |
|                          | Storage Temperature            | -40 ~ 60 °C (-40 ~ 140 °F)                                                                                                                                                |                                           |
|                          | Relative Humidity              | 10 ~ 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, 1Grms @with HDD; 2Grms @with SSD, follow IEC 60068-2-64                                                                        |                                           |
|                          | EMC                            | CE, FCC Class B, BSMI                                                                                                                                                     |                                           |
|                          | Safety                         | CB, CCC, BSMI, UL                                                                                                                                                         |                                           |
|                          | Front Panel Protection         | IP65 compliant                                                                                                                                                            |                                           |

## Dimensions

Unit: mm

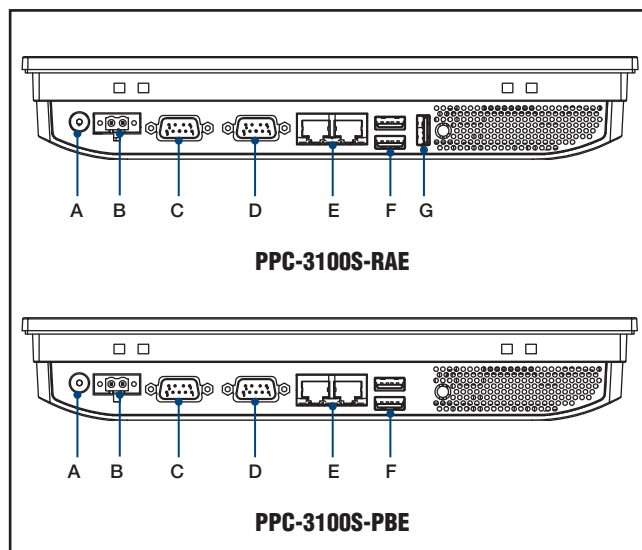


**Panel Cutout Dimensions: 265 x 210 mm (10.43 x 8.26 in)**

## Ordering Information

| Part Number       | Description                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------|
| PPC-3100S-RAE     | Intel Celeron N2930 Fanless Panel PC with 10.4" SVGA LED backlight, Resistive 5 wire touch screen          |
| PPC-3100S-PBE     | Intel Celeron N2930 Fanless Panel PC with 10.4" XGA LED backlight, Projected Capacitive Multi-touch screen |
| PPC-3100S-HDDE    | Bracket module for 2.5" SSD/HDD installation                                                               |
| 96PSA-A90W190T-1  | ADP A/D 100-240V 90W 19V W/PFC                                                                             |
| PPC-WLAN-B1E      | Wi-Fi Module with Antenna Cable 40cm for PPC                                                               |
| PPC-ARM-A03       | ARM VESA Standard (A-CLEVER) for PPC series                                                                |
| PPC-174T-WL-MTE   | Wall mount kit for PPC series                                                                              |
| PPC-Stand-A1E     | Stand for PPC series                                                                                       |
| 1700001524        | Power cord 3P UL 10A 125V 1.8M                                                                             |
| 170203183C        | Power cord 3P Europe (WS-010+083) 183cm                                                                    |
| 1700008921        | Power cord 3P/3P 1.8M PSE                                                                                  |
| 96CB-POWER-B-1.8M | Power code 3P CCC(China) 1.8M                                                                              |

## I/O View



A. Power Switch  
B. DC-In  
C. RS-232

D. RS-232/422/485  
E. 2 x RJ45 LAN  
F. 1 x USB 2.0, 1 x USB 3.0  
G. USB 2.0



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- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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