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 PCle
- Supports Windows Embedded and Android OS
- Supports VESA 75 x 75 mounting holes

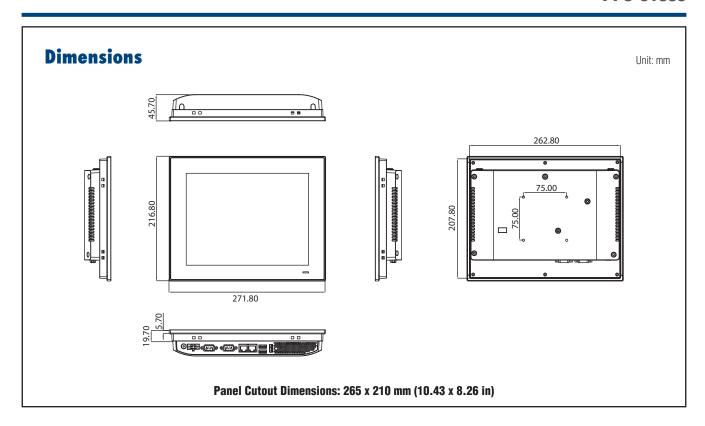


Introduction

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

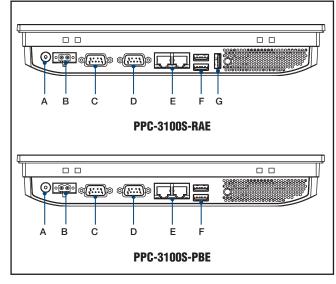
		PPC-3100S-RAE	PPC-3100S-PBE
System	CPU	Intel® Celeron® N2930 quad core	
	Frequency	1.83 GHz	
	L2 Cache	2 MB	
	Memory	1 x SODIMM DDR3L 1333 MHz (max. 8 GB)	
	Storage	1 x 2.5" SATA Bay bay (optional; requires a bracket module for installation) 1 x mSATA Bay (default)	
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet (Intel I211-AT)	
	1/0	2 x Serial ports: 1 x RS-232, 1x RS-232/422/485 (Adjustable through BIOS) 2 x USB 2.0, 1 x USB 3.0 (for PPC-3100S-RAE) 1 x USB 2.0, 1 x USB 3.0 (for PPC-3100S-PBE)	
	Expansion	1 x Full-size mini PCle 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(32/64-bit)/10(64-bit), WES7P, WEC7, Windows 10 IOT LTSC, Linux, Android 6.0	
Power Consumption	Input Voltage	12 ~ 24 V _{DC}	
	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/m²)	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	$0 \sim 50$ °C (32 ~ 122 °F) with SSD $0 \sim 40$ °C (32 ~ 104 °F) with HDD (with the HDD temperature more than or equal to 65 °C)	
	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	



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,	
	assembled in China	
PPC-3100S-RAU	Intel Celeron N2930 Fanless Panel PC with 10.4" SVGA LED backlight, Resistive 5 wire touch screen,	
	assembled in Taiwan	
	Intel Celeron N2930 Fanless Panel PC with 10.4"	
PPC-3100S-PBE	XGA LED backlight, Projected Capacitive Multi-touch	
	screen, assembled in China	
DD0 04000 DDU	Intel Celeron N2930 Fanless Panel PC with 10.4" XGA	
PPC-3100S-PBU	LED backlight, Projected Capacitive Multi-touch screen, assembled in Taiwan	
PPC-3100S-HDDE	Bracket module for 2.5' SSD/HDD installation	
96PSA-A90W190T-3		
	A/D 100-240V 90W 19V C6 TERMINAL 2 PIN 62368	
PPC-WLAN-C1E	M.2 Wi-Fi Module with Antenna cable support 2T2R	
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-1.8MB	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

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.