# **PPC-3150S**

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



#### **Features**

- Industrial-grade 15" XGA TFT LCD with 30K backlight lifetime
- Durable true-flat touchscreen with 5-wire resistive touch control
- Intel<sup>®</sup> Celeron<sup>®</sup> 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 IP66-rated
- 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







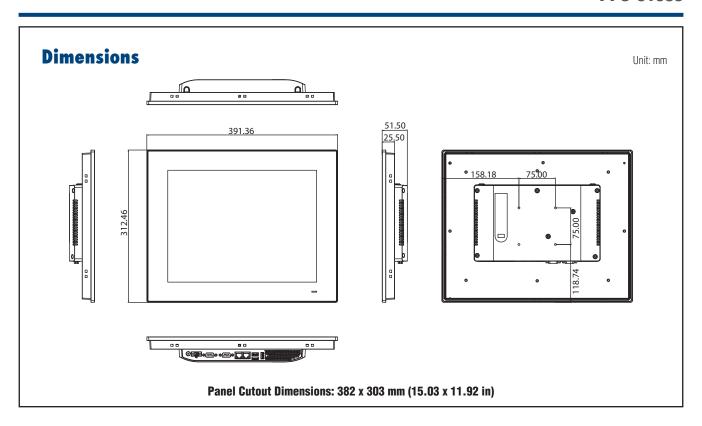


#### Introduction

The PPC-3150S is a high-value, ultra-slim panel PC equipped with a 15" 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-3150S features an IP66-rated front panel, true-flat 5-wire resistive touchscreen, 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**

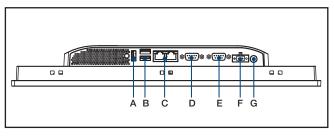
CPU			The same of the sa
System         L2 Cache         2 MB           Memory         1 x SODIMM DDR3L 1333 MHz (max. 8 GB)           Storage         1 x 2.5° SATA bay (optional; requires a bracket module for installation)           Network (LAN)         2 x 10/100/1000 Mbps Ethernet (Realtek 8119i)           Vio         2 x L SP 10/100/1000 Mbps Ethernet (Realtek 8119i)           Expansion         1 x Full+size mini PCle slot           Watchdog Timer         255 timer levels, set up by software           Physical Characteristics         Dimensions         391.36 x 312.46 x 51.5 mm (15.4 x 12.3 x 2.0 in)           Characteristics         Weight         4 kg (8 8lb)           OS Support         OS Support         Microsofte* Windows 7(32/64-bit), Windows 10 IOT LTSC(64-bit), Linux           Power Consumption         10 Support         12 - 24 Voc.           Power Consumption         20W (Burn-in test 7.0 in Windows 7, 32-bit)           Power Consumption         20W (Burn-in test 7.0 in Windows 7, 32-bit)           Resolution         1024 x 768           LUD         Viewing Angle         80 (lett), 80 (right), 70 (up), 70 (down)           Luminance (cd/m²)         400           Contrast Ratio         700           Backlight Lifetime         50,000 hr           Controller         RS232 interface           Dur	System	CPU	Intel® Celeron® N2930 quad core
Memory			
System   Storage		L2 Cache	
System		Memory	1 x SODIMM DDR3L 1333 MHz (max. 8 GB)
Vio		Storage	
V		Network (LAN)	2 x 10/100/1000 Mbps Ethernet (Realtek 8119i)
Physical Characteristics         Dimensions         391.36 x 312.46 x 51.5 mm (15.4 x 12.3 x 2.0 in)           OS Support         Weight         4 kg (8.8lb)           OS Support         Microsofi® Windows 7(32/64-bit), Windows 10 IOT LTSC(64-bit), Linux           Power Consumption         10put Voltage         12 - 24 V <sub>DC</sub> Power Consumption         20W (Burn-in test 7.0 in Windows 7, 32-bit)           Besolution         1024 x 768           Viewing Angle         80 (left), 80 (right), 70 (up), 70 (down)           Luminance (cd/m²)         400           Contrast Ratio         700           Backlight Lifetime         50,000 hr           Controller         RS232 interface           Controller         RS232 interface           Durability (Touches)         36 million           Operating Temperature         -40 - 60 °C (-40 - 140 °F)           Relative Humidity         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, 2Grms @with SSD, follow IEC 60068-2-64           EMC         CE, FCC Class B, BSMI, UKCA           Salety         CB, UL, CCC, UKCA		1/0	2 x USB 2.0, 1 x USB 3.0
Physical Characteristics         Dimensions         391.36 x 312.46 x 51.5 mm (15.4 x 12.3 x 2.0 in)           OS Support         Weight         4 kg (8.8lb)           OS Support         OS Support         Microsoft® Windows 7(32/64-bit), Windows 10 IOT LTSC(64-bit), Linux           Power Consumption         20W (Burn-in test 7.0 in Windows 7, 32-bit)           Power Consumption         20W (Burn-in test 7.0 in Windows 7, 32-bit)           Power Consumption         20W (Burn-in test 7.0 in Windows 7, 32-bit)           Power Consumption         20W (Burn-in test 7.0 in Windows 7, 32-bit)           Resolution         1024 x 768           Viewing Angle         80 (left), 80 (right), 70 (up), 70 (down)           Luminance (cd/m²)         400           Contrast Ratio         700           Backlight Lifetime         50,000 hr           Touch Type         5-wire resistive touch           Light Transmission         80±5% at 550 nm wavelength           Controller         RS232 interface           Durability (Touches)         36 million           Poperating Temperature         0 - 50 °C (32 ~ 122 °F)           Storage Temperature         -40 - 60 °C (-40 ~ 140 °F)           Relative Humidity         95% @ 40 °C (non-condensing)           Shock         Operating Random Vibration Test 5 - 500Hz, 2Grms @with SSD,		Expansion	1 x Full-size mini PCle slot
Characteristics         Weight         4 kg (8.8lb)           OS Support         OS Support         Microsoft® Windows 7(32/64-bit), Windows 10 IOT LTSC(64-bit), Linux           Power Consumption         Input Voltage         12 ~ 24 V <sub>DC</sub> Power Consumption         20W (Burn-in test 7.0 in Windows 7, 32-bit)           LCD         Display Type         15" TFT LCD (LED backlight)           Resolution         1024 x 768           Viewing Angle         80 (left), 80 (right), 70 (up), 70 (down)           Luminance (cd/m²)         400           Contrast Ratio         700           Backlight Lifetime         50,000 hr           Touch Type         5-wire resistive touch           Light Transmission         80±5% at 550 nm wavelength           Controller         RS232 interface           Durability (Touches)         36 million           Operating Temperature         0-50 °C (32 ~ 122 °F)           Storage Temperature         40 - 60 °C (-40 ~ 140 °F)           Relative Humidity         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, 2Grms @with SSD, follow IEC 60068-2-64           EMC         CE, FCC Class B, BSMI, UKCA		Watchdog Timer	255 timer levels, set up by software
OS Support         OS Support         Microsoft® Windows 7(32/64-bit), Windows 10 IOT LTSC(64-bit), Linux           Power Consumption         Input Voltage         12 ~ 24 V <sub>DC</sub> Power Consumption         20W (Burn-in test 7.0 in Windows 7, 32-bit)           LCD         Display Type         15° TFT LCD (LED backlight)           Resolution         1024 x 768           Viewing Angle         80 (left), 80 (right), 70 (up), 70 (down)           Luminance (cd/m²)         400           Contrast Ratio         700           Backlight Lifetime         50,000 hr           Controller         5-wire resistive touch           Light Transmission         80±5% at 550 nm wavelength           Controller         RS232 interface           Durability (Touches)         36 million           Operating Temperature         0 ~ 50 °C (32 ~ 122 °F)           Storage Temperature         -40 ~ 60 °C (-40 ~ 140 °F)           Relative Humidity         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, 2Grms @with SSD, follow IEC 60068-2-64           EMC         CE, FCC Class B, BSMI, UKCA           Safety         CB, UL, CCC, UKCA	Physical	Dimensions	391.36 x 312.46 x 51.5 mm (15.4 x 12.3 x 2.0 in)
Power Consumption         12 ~ 24 V <sub>DC</sub> Power Consumption         20W (Burn-in test 7.0 in Windows 7, 32-bit)           LCD         Display Type         15" TFT LCD (LED backlight)           Resolution         1024 x 768           Viewing Angle         80 (left), 80 (right), 70 (up), 70 (down)           Luminance (cd/m²)         400           Contrast Ratio         700           Backlight Lifetime         50,000 hr           Light Transmission         80±5% at 550 nm wavelength           Controller         RS232 interface           Durability (Touches)         36 million           Operating Temperature         -40 ~ 60 °C (-40 ~ 140 °F)           Storage Temperature         -40 ~ 60 °C (-40 ~ 140 °F)           Relative Humidity         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, 2Grms @with SSD, follow IEC 60068-2-64           EMC         CE, FCC Class B, BSMI, UKCA           Safety         CB, UL, CCC, UKCA	Characteristics		4 kg (8.8lb)
Power Consumption   20W (Burn-in test 7.0 in Windows 7, 32-bit)	OS Support	OS Support	Microsoft® Windows 7(32/64-bit), Windows 10 IOT LTSC(64-bit), Linux
Display Type	Power Consumption	Input Voltage	$12 \sim 24 \text{ V}_{DC}$
Resolution		Power Consumption	20W (Burn-in test 7.0 in Windows 7, 32-bit)
Viewing Angle   80 (left), 80 (right), 70 (up), 70 (down)	LCD	Display Type	15" TFT LCD (LED backlight)
Luminance (cd/m²) 400 Contrast Ratio 700 Backlight Lifetime 50,000 hr  TouchScreen  Touch Type 5-wire resistive touch Light Transmission 80±5% at 550 nm wavelength Controller RS232 interface Durability (Touches) 36 million Operating Temperature 0 ~ 50 °C (32 ~ 122 °F) Storage Temperature -40 ~ 60 °C (-40 ~ 140 °F) Relative Humidity 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, 2Grms @with SSD, follow IEC 60068-2-64 EMC CE, FCC Class B, BSMI, UKCA Safety CB, UL, CCC, UKCA		Resolution	1024 x 768
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Backlight Lifetime 50,000 hr  Touch Type 5-wire resistive touch  Light Transmission 80±5% at 550 nm wavelength  Controller RS232 interface  Durability (Touches) 36 million  Operating Temperature 0 ~ 50 °C (32 ~ 122 °F)  Storage Temperature -40 ~ 60 °C (-40 ~ 140 °F)  Relative Humidity 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, 2Grms @with SSD, follow IEC 60068-2-64  EMC CE, FCC Class B, BSMI, UKCA  Safety CB, UL, CCC, UKCA		Luminance (cd/m²)	400
Touch Type		Contrast Ratio	700
Light Transmission   80±5% at 550 nm wavelength		Backlight Lifetime	50,000 hr
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Privironment  Operating Temperature  0 ~ 50 °C (32 ~ 122 °F)  Storage Temperature  -40 ~ 60 °C (-40 ~ 140 °F)  Relative Humidity  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, 2Grms @with SSD, follow IEC 60068-2-64  EMC  CE, FCC Class B, BSMI, UKCA  Safety  CB, UL, CCC, UKCA		Controller	RS232 interface
Storage Temperature -40 ~ 60 °C (-40 ~ 140 °F)  Relative Humidity 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, 2Grms @with SSD, follow IEC 60068-2-64  EMC CE, FCC Class B, BSMI, UKCA  Safety CB, UL, CCC, UKCA		Durability (Touches)	36 million
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Vibration Operating Random Vibration Test 5 ~ 500Hz, 2Grms @with SSD, tollow IEC 60068-2-64  EMC CE, FCC Class B, BSMI, UKCA  Safety CB, UL, CCC, UKCA		Shock	
Safety CB, UL, CCC, UKCA		Vibration	Operating Random Vibration Test 5 ~ 500Hz, 2Grms @with SSD, follow IEC 60068-2-64
Safety CB, UL, CCC, UKCA		EMC	
		Safety	
		Front Panel Protection	



# **Ordering Information**

Part Number	Description
PPC-3150S-RB	15" PPC w/Intel N2930, Resistive
PPC-3100S-HDDE	Bracket module for 2.5" SSD/HDD installation
96PSA-A90W190T-3	Power adapter 100-240V 90W 19V
PPC-WLAN-D1	M.2, WiFi6 +BT5.2, 2T2R, w/Antenna, Mini PCle adapter
PPC-ARM-A03	ARM VESA Standard 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
98R3P300010	PPC-300 RFID Read only 13.56MHz&125k

### I/O View



A. USB 2.0

A. USD 2.U

B. 1 x USB 2.0, 1 x USB 3.0

C. 2 x RJ45 LAN D. RS-232/422/485 E. RS-232

F. DC-In

G. Power Switch

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.