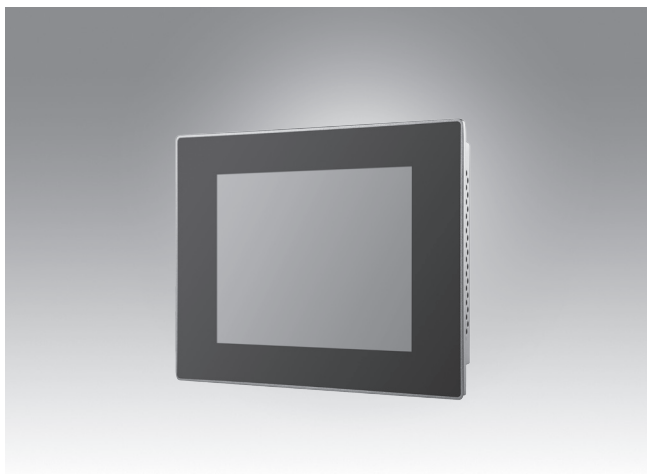# PPC-3060S

6.5" Fanless Panel PC with Intel® Celeron® N2807 Processor

Features

- Industrial-grade 6.5" VGA TFT LCD with LED backlight
- Durable true-flat touchscreen with 5-wire resistive touch control
- Intel® Celeron® N2807 dual-core, 1.58 GHz, processor
- Up to 4 GB DDR3L SDRAM
- Compact, fanless design with IP65-rated front panel
- Supports expansion via full-size mini PCIe
- Supports Windows Embedded and Android OS
- Supports VESA 75 x 75 mounting holes

SUSIAccess Windows® Embedded VCI CCC EHC C CE FCC R33138 RoHS LISTED E190881 I.T.E. c UL us
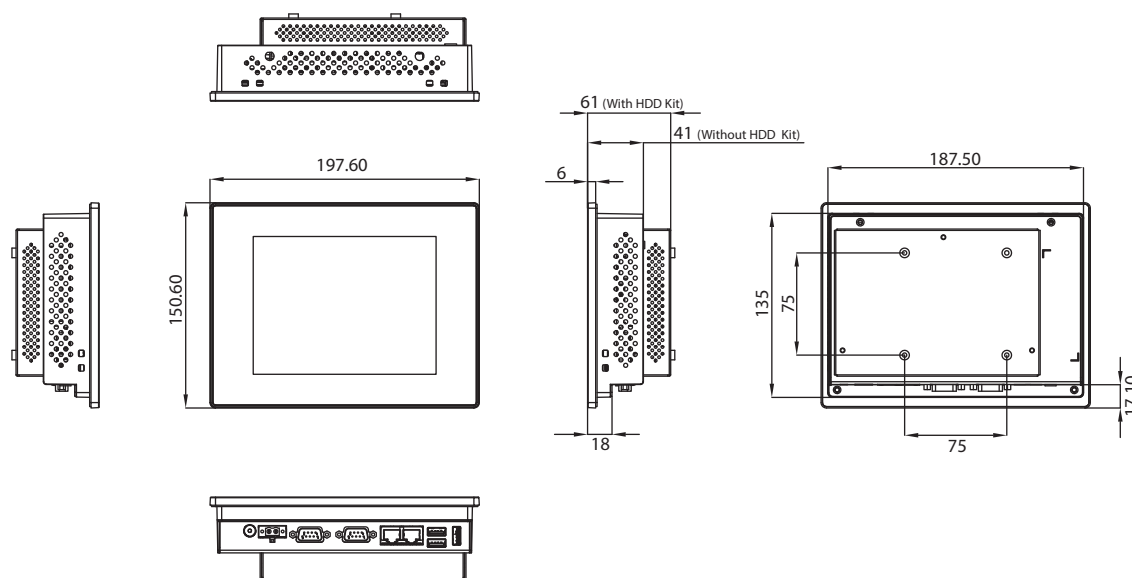
Introduction

The PPC-3060S is a high-value, ultra-slim panel PC equipped with a 6.5" VGA TFT LCD, and low-power Intel® Celeron® N2807, 1.58 GHz, processor to provide high-performance computing in a compact and fanless system. For high durability and functionality, the PPC-3060S features an IP65-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.

Specifications

System	CPU	Intel® Celeron® N2807 dual core
	Frequency	1.58 GHz
	L2 Cache	1 MB
	Memory	1 x SODIMM DDR3L 1333 MHz (max. 4 GB)
	Storage	1 x 2.5" SATA bay (optional; requires a bracket module for installation) 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) 2 x USB 2.0, 1 x USB 3.0
	Expansion	1 x Full-size mini PCIe slot
	Watchdog Timer	255 timer levels, set up by software
Physical Characteristics	Dimensions	197.6 x 150.6 x 41 mm (7.8 x 5.9 x 1.6 in)
	Weight	1.5 kg (3.30 lb)
OS Support	OS Support	Microsoft® Windows 7/8.1/10 (32/64-bit), WES7, WEC7, Linux, Android
Power Consumption	Input Voltage	12 ~ 24 V_{DC}
	Power Consumption	11 W (Burn-in test 7.0 in Windows 7, 32-bit)
LCD	Display Type	6.5" TFT LCD (LED backlight)
	Resolution	640 x 480
	Viewing Angle	80 (left), 80 (right), 70 (up), 70 (down)
	Luminance (cd/m²)	800
	Contrast Ratio	600
	Backlight Lifetime	50,000 hr (typical)
Touchscreen	Touch Type	ELO 5-wire resistive touch
	Light Transmission	80±5% at 550 nm wavelength
	Controller	RS232 interface
	Durability (Touches)	Greater than 35 million touches in one location without failure
Environment	Operating Temperature	0 ~ 50 °C (32 ~ 122 °F) with SSD 0 ~ 40 °C (32 ~ 104 °F) with HDD
	Storage Temperature	-30 ~ 60 °C (-22 ~ 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

Last updated: 27-Jun-2018

Dimensions

Unit: mm

197.60

150.60

61 (With HDD Kit)

41 (Without HDD Kit)

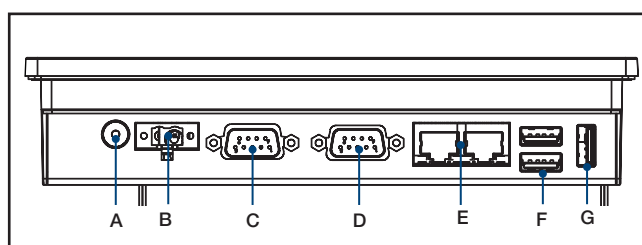6

18

187.50

135

75

75

17.10

Panel Cutout Dimensions: 189 x 136.5 mm (7.44 x 5.37 in)

Ordering Information

Part Number	Description
PPC-3060S-N80AE	Intel Celeron N2807 Fanless Panel PC with 6.5" LCD LED backlight
98R3P30600E	Bracket module for 2.5" SSD/HDD installation
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
96PSA-A90W19OT-1	ADP A/D 100-240V 90W 19V W/PFC
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

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
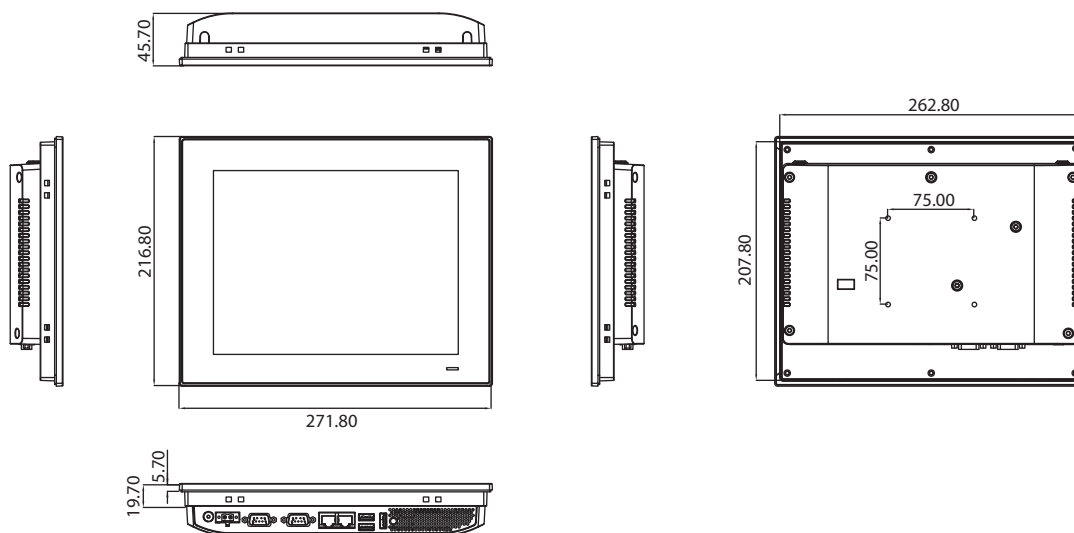- Supports VESA 75 x 75 mounting holes

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) 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) 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 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_{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 ~ 50 °C (32 ~ 122 °F) with SSD 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	

Last updated: 27-Jun-2018

Dimensions

Unit: mm

45.70

216.80

271.80

5.70
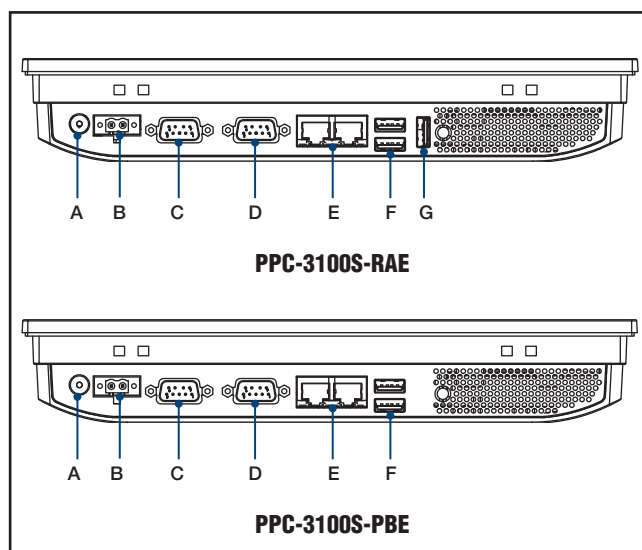
19.70

262.80

207.80

75.00

75.00

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-A90W19OT-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 B C D E F G

PPC-3100S-RAE

A B C D E F

PPC-3100S-PBE

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

PPC-3120S

12.1" Fanless Panel PC with Intel® Celeron® N2930 Processor

Features

- Industrial-grade 12.1" XGA TFT LCD with 30K backlight lifetime
- Durable true-flat touchscreen with 5-wire resistive 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
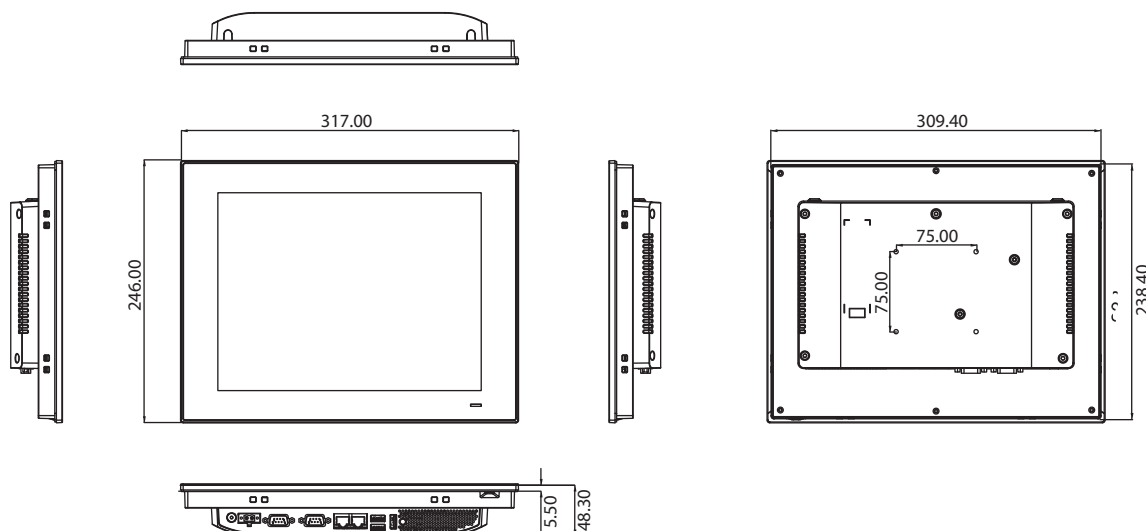- Supports VESA 75 x 75 mounting holes

Introduction

The PPC-3120S is a high-value, ultra-slim panel PC equipped with a 12.1" 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-3120S features an IP65-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

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 (optional; requires a bracket module for installation) 1 x mSATA bay (default)
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet (Intel I211-AT)
	I/O	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
	Expansion	1 x Full-size mini PCIe slot
	Watchdog Timer	255 timer levels, set up by software
Physical Characteristics	Dimensions	317 x 246 x 49 mm (12.5 x 9.7 x 1.9 in)
	Weight	2.1 kg (4.63 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_{DC}
	Power Consumption	18W (Burn-in test 7.0 in Windows 7, 32-bit)
LCD	Display Type	12.1" TFT LCD (LED backlight)
	Resolution	1024 x 768
	Viewing Angle	80 (left), 80 (right), 70 (up), 70 (down)
	Luminance (cd/m²)	500
	Contrast Ratio	700
	Backlight Lifetime	30,000 hr (min.)
Touchscreen	Touch Type	ELO 5-wire resistive touch
	Light Transmission	80±5% at 550 nm wavelength
	Controller	RS232 interface
	Durability (Touches)	Greater than 35 million touches in one location without failure
Environment	Operating Temperature	0 ~ 50 °C (32 ~ 122 °F) with SSD 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

317.00

246.00

309.40

75.00
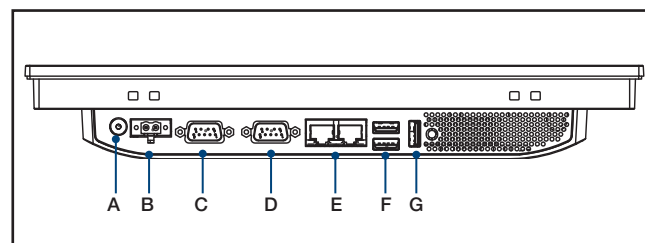
75.00

238.40

5.50

48.30

Panel Cutout Dimensions: 311 x 240 mm (12.24 x 9.44 in)

Ordering Information

Part Number	Description
PPC-3120S-RAE	Intel Celeron N2930 Fanless Panel PC with 12.1" XGA LED backlight
PPC-3100S-HDDE	Bracket module for 2.5" SSD/HDD installation
96PSA-A90W19OT-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 B C D E F G

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

PPC-3150S

Features

- Industrial-grade 15" XGA TFT LCD with 30K backlight lifetime
- Durable true-flat touchscreen with 5-wire resistive 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
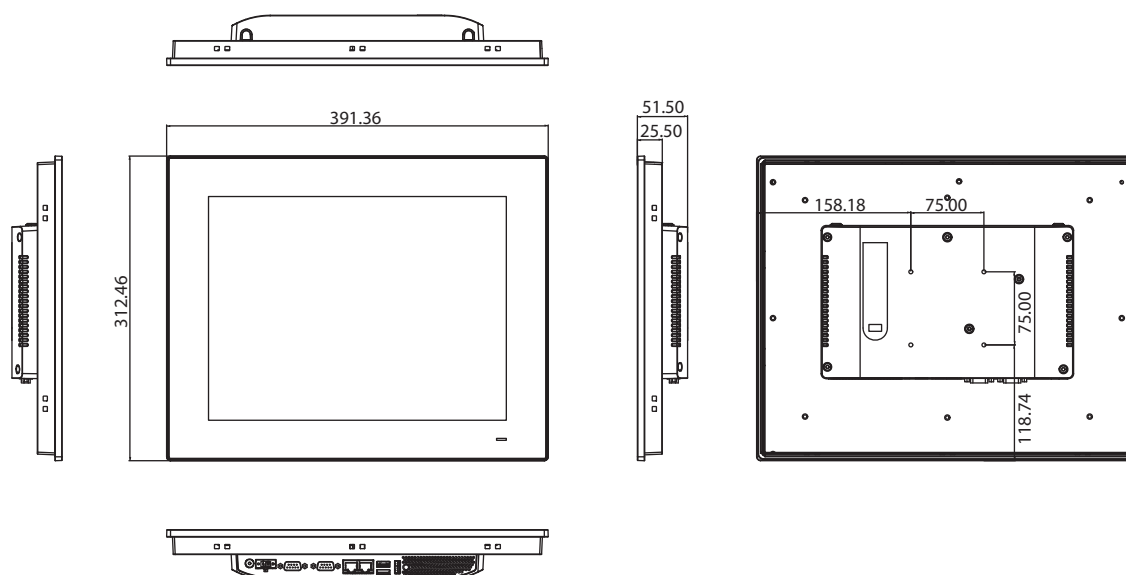- Supports VESA 75 x 75 mounting holes

Introduction

The PPC-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 IP65-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

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 (optional; requires a bracket module for installation) 1 x mSATA bay (default)
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet (Intel I211-AT)
	I/O	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
	Expansion	1 x Full-size mini PCIe 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)
	Weight	4 kg (8.8lb)
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$_{DC}$
	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
Touchscreen	Touch Type	5-wire resistive touch
	Light Transmission	80±5% at 550 nm wavelength
	Controller	RS232 interface
	Durability (Touches)	36 million
Environment	Operating Temperature	0 ~ 50 °C (32 ~ 122 °F) with SSD 0 ~ 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

Dimensions

Unit: mm

391.36

51.50
25.50

312.46

158.18 75.00

75.00

118.74

Panel Cutout Dimensions: 382 x 303 mm (15.03 x 11.92 in)

Ordering Information

Part Number	Description
PPC-3150S-RAE	Intel Celeron N2930 Fanless Panel PC with 15" XGA LED backlight
PPC-3100S-HDDE	Bracket module for 2.5" SSD/HDD installation
96PSA-A90W19OT-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
2070014862	Image WIN10ENT LTSB 64-bit PPC-3150S Multi V6.01
2070014419	Image WS7P 64-bit PPC-3150S Multi V4.14
2070014473	Image WEC7 PPC-3120S MUI v4.01

I/O View

A B C D E F G

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