

Features

Performance for Industrial IoT Applications

- 1.9 GHz Quad-Core Intel® Atom™ E3845 processor
- Up to 8 GB of RAM
- Supports Linux, Windows 10 Operating Systems

Rugged Design for Demanding Environments

- IP65-compliant fanless panel PC
- Front display sealed against water and dust
- Panel or VESA mounting configurations
- -25°C to +70°C operating temperature range
- SATA controller with 2.5-inch HDD/SSD
- Wide input power: 12-24V DC

Fast Graphics at High Resolutions

- Five-wire resistive touchscreen
- Resolution: 1024 x 768 / 1280 x 1024

Connectivity and I/O for Embedded Systems

- 2x Gigabit Ethernet ports
- 1x USB 2.0 port (up to 3x with expansion)
- 1x USB 3.0 port
- Half-size Mini-PCIe socket
- Watchdog timer

Expansion Options

- 2x RS-232/422/485 plus 2x USB (default)
- 2x RS-232/422/485 plus 1x RS-232 (optional)
- 1x line-out, 1x RS-232/422/485 plus 2x USB (optional)



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Product Description

WinSystems' PPC65B-1x Panel PC Series is IP65-certified and optimized for use in demanding market applications including industrial machinery, utilities, petroleum, transportation, pipeline and food processing, wherever there is need for tight system integration in a minimal foot print.

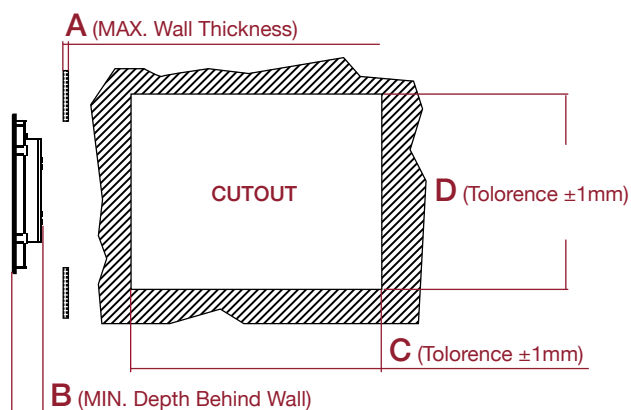
High performance embedded applications will benefit from the PPC65B-1x's 1.9 GHz Quad-Core Intel® Atom™ E3845 processor. The panel PC is designed and engineered to operate without a fan—even with the quad-core processor—resulting in quieter operation, lower maintenance, and increased product service life.

The front panel and touchscreen of the PPC65B-1x are environmentally sealed to protect the unit from damaging moisture, dust, and dirt when mounted in an IP65-rated enclosure. It can also be attached to a 75 x 75mm or 100 x 100mm VESA mount.

Applications that require a conventional 2.5" SATA hard drive or 2.5" SATA SSD will benefit from the built-in drive tray that facilitates easy insertion and removal of the drive without the need for a SATA cable.

The PPC65B-1x series supports operating systems (OS) such as Linux and Windows 10. Contact an Applications Engineer for details on pre-installed operating system options. The unit is engineered to meet and exceed industry standards for RF emissions and susceptibility, is shock- and vibration-resistant, and confirmed to be compliant with FCC Part 15 Class A and CE EN 55022/55024: 2010 Class A.

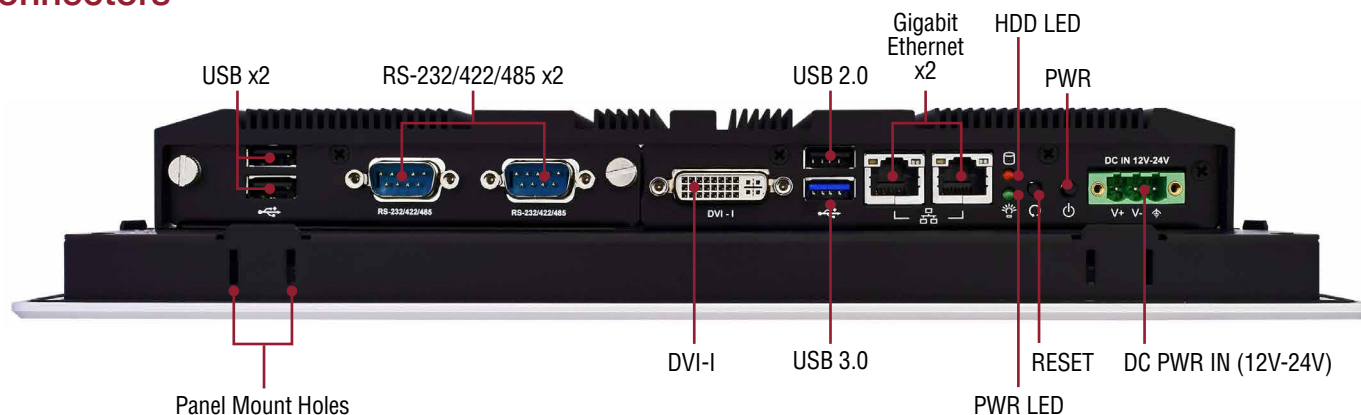
Mounting/Installation Dimensions



Panel Mount Cutout Dimensions

Part Number	A (mm)	B (mm)	C (mm)	D (mm)	Brackets (pcs)
PPC65B-10	<10.7	50.2	297	236	X 8
PPC65B-12	<10.9	53.2	326	265	X 12
PPC65B-15	<11.3	55.6	408.5	313	X 16
PPC65B-17	<12	58.6	420	358	X 16
PPC65B-19	<12	58.6	463	383	X 20

Connectors



Technical Specifications

PART NUMBER	PPC65B-10	PPC65B-12	PPC65B-15	PPC65B-17	PPC65B-19
DISPLAY	LCD Size: 10.4" Res: XGA 1024 x 768 Brightness: 450 cd/m2 Contrast Ratio: 3000:1	LCD Size: 12.1" Res: XGA 1024 x 768 Brightness: 500 cd/m2 Contrast Ratio: 700:1	LCD Size: 15" Res: XGA 1024 x 768 Brightness: 450 cd/m2 Contrast Ratio: 700:1	LCD Size: 17" Res: SXGA 1280 x 1024 Brightness: 350 cd/m2 Contrast Ratio: 700:1	LCD Size: 19" Res: SXGA 1280 x 1024 Brightness: 350 cd/m2 Contrast Ratio: 1000:1
	<ul style="list-style-type: none"> Backlight: LED type Touch Window: 5-Wire Resistive Single Touch 				
SYSTEM	<ul style="list-style-type: none"> SOC: Intel® Atom™ Quad-Core E3845 (1.91 GHz) Memory: DDR3L SO-DIMM 1333/1600 MHz max up to 8 GB BIOS: AMI Graphics: Intel® Gen7 Graphics LAN: Chipset Dual Intel® I210IT Gigabit Ethernet Audio: Realtek High Definition Audio Codec Watchdog Timer: 1~255 levels reset Storage Device: 2.5" SATA HDD / SSD, Compact Flash II and SD card OS: Windows 10, Linux, and other x86 Operating Systems 				
ONBOARD I/O	<ul style="list-style-type: none"> Serial Ports: 2 x RS-232/422/485 (Expansion: default) Display: 1 x DVI-I USB Options: 1 x USB 2.0 and 1 x USB 3.0 or 2 x USB 2.0 (Expansion: default) Ethernet: 2 x Gigabit Ethernet Half-Size Mini-PCIe Expansion slot Others: 1 x SMA Antenna hole for WiFi/3G Solution Expansion Options: <ul style="list-style-type: none"> Option 1 – 2 x RS-232/422/485, 1 x RS-232 Option 2 – 1 x Line-out, 1 x RS-232/422/485, 2 x USB 2.0 				
MECHANICAL	Weight: 3.5 Kg Dimensions (mm): 314 x 253 x 50.2	4.3 Kg Dimensions (mm): 343 x 282 x 53.2	5.3 Kg Dimensions (mm): 425.4 x 330 x 55.6	6.8 Kg Dimensions (mm): 437 x 375 x 58.6	7.8 Kg Dimensions (mm): 480 x 400 x 58.6
	<ul style="list-style-type: none"> Mounting (mm): VESA Mount 75 x 75 & 100 x 100; Panel Mount 				
POWER	<ul style="list-style-type: none"> Power Supply: DC 12-24V input with 3-pin Terminal Block Connector 				
	Consumption (Max): 31.5W (12V); 35.2W (24V) Consumption (Min): 10.3W (12V); 11.8W (24V)	Consumption (Max): 29.4W (12V); 30.2W (24V) Consumption (Min): 10.2W (12V); 11.5W (24V)	Consumption (Max): 30W (12V); 30.5W (24V) Consumption (Min): 10W (12V); 11.8W (24V)	Consumption (Max): 37.8W (12V); 38.3W (24V) Consumption (Min): 10W (12V); 11.8W (24V)	Consumption (Max): 33.7W (12V); 33.8W (24V) Consumption (Min): 10.2W (12V); 11.5W (24V)
	<ul style="list-style-type: none"> Power Adaptor: 12V, 5A/60W (Optional) 				
ENVIRONMENTAL	<ul style="list-style-type: none"> Operational Temperature Range: -25°C to +70°C Storage Temperature Range: -40°C to +85°C (20-90% non-condensing) Vibration: 1.0G (SD/CF/SSD) and 0.5G (HDD), Power on & 2.16G, Packaged; 5-500Hz, IEC 60068-2-64 Shock: 15G peak acceleration, 11 ms (Power on condition), IEC 60068-2-27 Drop: Package with Carton from 96.5 cm (1-Corner, 3-Axis, 6-Face), ISTA 2A Standard Front Panel Protection: IP65 (Front) / IP20 (Rear), IEC 60529 Edition 2.1 Standard Certification: CE/FCC Class A 				

Order Information

PART NO. SCHEME	PPC65B-1x-a-b-c
a = RAM Installed	2 = 2G 4 = 4G 8 = 8G
b = Expansion Opts	0 = 4 USB 2.0, 2 Serial (RS-232/422/485) 1 = 2 USB 2.0, 3 Serial (1x RS-232, 2x RS232/422/485) 2 = 4 USB 2.0, 1 Serial (RS-232/422/485), Audio Line-Out
c = Media & OS	(Contact Application Engineer)

Expansion and Customization Options

WinSystems offers additional cables, expansion cards, power supplies, and solid state drives to complete your embedded computing solution including data acquisition, communications, location, and other features via PCIe/104 and M.2 interfaces. Our Application Engineers are available to guide you through product selection and customized options.



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