

PPC-3190

19" Fanless Panel PC with Intel® Atom™ Quad-Core Processor



Features

- 19" SXGA TFT LCD with resistive touchscreen
- Intel® Atom™ E3845 quad-core, 1.91 GHz, processor
- Fanless, slim design
- Supports 1 x internal 2.5" SATA HDD and 1 x mSATA
- 1 x PCI/PCIe x1 expansion slot
- Wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F)
- Wide range DC support (9 ~ 32 V_{DC})
- 1 x isolated RS-422/485 with automatic flow control and dual Intel GbE
- Optional GPIO (8 channels, TTL level)



Introduction

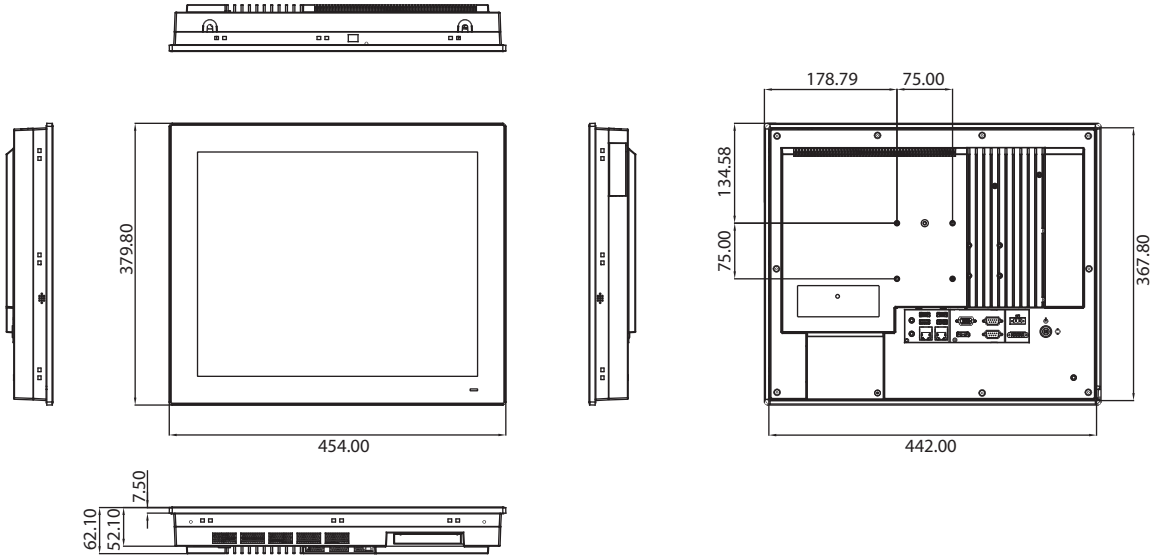
The PPC-3190 is a 19" fanless panel PC equipped with a high-performance Intel® Atom™ E3845 quad-core, 1.91 GHz, processor that supports both a wide operating temperature range (-20 ~ 60 °C) and wide power input range (9 ~ 32 V_{DC}). The provision of multiple I/O, including 4 x COM, 1 x USB 3.0, 1 x isolated RS-422/485, and dual Intel® Gigabit Ethernet, ensures easy integration and connectivity. With the inclusion of 1 x PCI/PCIe expansion slot, the PPC-3190 can be integrated with fieldbus protocols or proprietary cards for increased application potential.

Specifications

		PPC-3190-RE4AE	PPC-3190-RE4BE
System	CPU	Intel® Atom™ E3845 quad core	
	Frequency	1.91 GHz	
	L3 Cache	2 MB	
	Memory	1 x SODIMM DDR3L 1333 MHz (max. 8 GB)	
	Storage	1 x 2.5" SATA bay 1 x mSATA bay	
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet (Intel I210)	
	I/O	1 x isolated RS-422/485 (terminal block) 4 x RS-232, two external and two by internal pin header (need optional module) 1 x GPIO (8 channels, TTL level) by internal pin header (need optional module) 1 x USB 3.0, 3 x USB 2.0 1 x VGA 1 x DP1.1a 1 x Line-out, 1 x Mic-in	
	Expansion	1 x Mini PCIe 1 x PCI (default); 1 x PCIe x1 (in the accessory box) Optional: 1 x Cfast; 1 x CF card; 1 x Internal USB dongle; 2 x RS-232 or 1 x RS-232 + 1 x GPIO	
	Watchdog Timer	255 timer levels, set up by software	
Speaker	2 x 1W		
Physical Characteristics	Dimensions	458.2 x 384 x 67.3 mm (18 x 15 x 2.6 in)	454.0 x 379.8 x 62.1 mm (17.8 x 14.9 x 2.4 in)
	Weight	7.9 kg (17.3 lb)	7.0 kg (15.4 lb)
OS Support	OS Support	Microsoft® Windows 7/8.1/10 (32/64-bit), WES7, WEC7, Linux	
Power Consumption	Input Voltage	9 ~ 32 V _{DC}	
	Power Consumption	27W (Burn-in test 7.0 in Windows 7 32 bit)	
LCD	Display Type	19" TFT LED panel	
	Max. Resolution	1280 x 1024	
	Viewing Angle	85 (left), 85 (right), 80 (up), 80 (down)	
	Luminance (cd/m ²)	350	
	Contrast Ratio	1000	
	Backlight Lifetime	50,000 hr (min.)	
Touchscreen	Touch Type	5-wire analog resistive	
	Light Transmission	81+/-3%	
	Controller	USB interface	
	Durability (Touches)	36 million	

Dimensions

Unit: mm



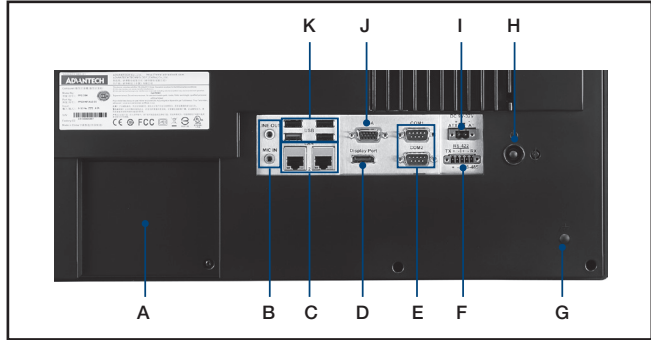
Panel Cutout Dimensions: 444 x 370 mm (17.48 x 14.56 in)

Environment	Operating Temperature	0 ~ 50 °C (32 ~ 122 °F) with 2.5" SATA SSD -20 ~ 60 °C (-4 ~ 140 °F) with -40 ~ 85 °C mSATA or 2.5" SATA SSD
	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, follow IEC 60068-2-64
	EMC	BSMI, CE, FCC Class A
	Safety	CB, CCC, BSMI, UL
Front Panel Protection	IP65 compliant	

Ordering Information

Part Number	Description
PPC-3190-RE4AE	Black front bezel, Intel Atom E3845 with 19" LED, 5-wire resistive touch
PPC-3190-RE4BE	True flat, Intel Atom E3845 with 19" LED, 5-wire resistive touch
PPC-WLAN-B1E	Wi-Fi Module with Antenna Cable 40cm for PPC
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-ARM-A03	PPC ARM VESA Standard
PPC-3150-COME	Kit to install extra COMx2/DIOx1 for PPC-3150/3190
96PSA-A90W190T-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 cord 3P CCC(China) 1.8M
PPC-STAND-A1E	Stand For PPC Series
98R3C31500E	PPC-315/317/319 internal USB dongle kits

I/O View



- A. 1 x Expansion slot (PCI or PCIe x1)
- B. Mic-in/Line-out
- C. 2 x Intel Gigabit Ethernet
- D. 1 x DisplayPort
- E. 2 x RS-232
- F. 1 x Isolated RS-422/485
- G. Ground Line
- H. Power Button
- I. DC inlet and AT/ATX switch
- J. VGA x1
- K. 1 x USB 3.0, 3 x USB 2.0

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