

PPC-3181SW-MART

18.5" Panel PC with Win 10 LTSC and Intel® Core™ i5-6300U



Features

- 18.5" true-flat WXGA TFT LCD with projected capacitive touch control
- Win 10 IOT LTSC, 8GB DDR4 SDRAM, 128GB 3D TLC SSD
- Fanless design with aluminum alloy enclosure
- Wide Range DC input (12~24V DC), Configurable RS-232/422/485
- IP65-rated front panel, Supports dual displays, VESA 100
- Supports TPM 2.0 (optional)
- No RED Certification



Introduction

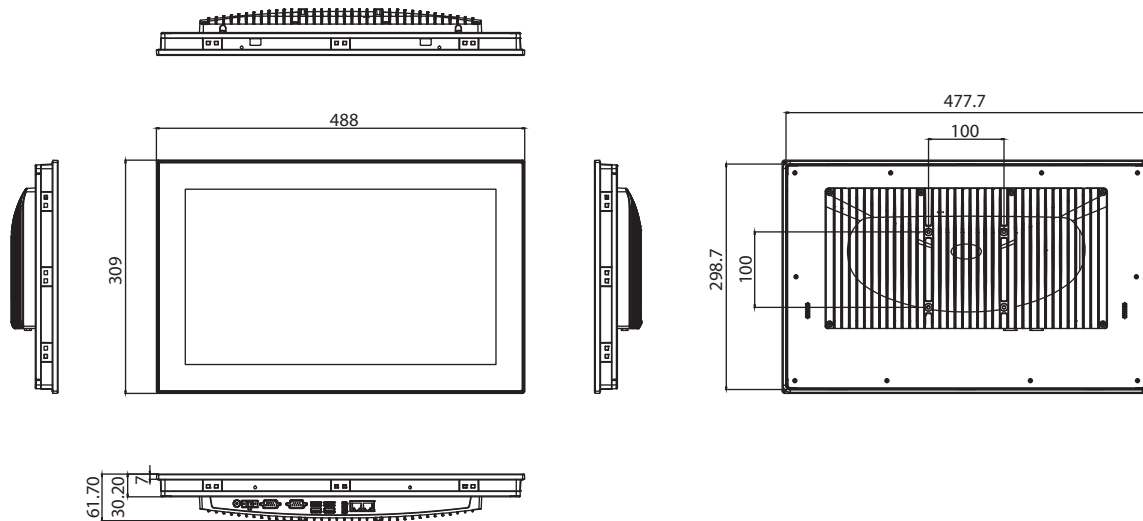
The PPC-3181SW-MART is an all-in-one light panel PC with a wide format 18.5" WXGA industrial-grade LCD, Intel® Core™ i5-6300U, 8GB DDR4, 128GB SSD, 90W power adapter and Win 10 LTSC to provide high-performance computing in a compact and fanless system.

Specifications

System	CPU	i5-6300U
	Cores	Dual Core
	Frequency	2.4 GHz; 3.0 GHz with turbo boost
	L3 Cache	3 MB
	TDP	15W
	Memory	1 x 8GB SODIMM DDR4 2400 MHz
	Storage	1 x 128GB 2.5" 3D TLC SSD 1 x mSATA bay
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet (Intel I211-AT; Intel I219LM)
	I/O	2 x Serial ports: 1 x RS-232, 1 x RS-232/422/485(Adjustable through BIOS) 2 x USB 3.0, 2 x USB 2.0 1 x HDMI 1 x TPM 2.0 internal (optional)
	Speaker	2 x 1W
Physical Characteristics	Expansion	1 x Full-size mini PCIe slot
	Watchdog Timer	255 timer levels, set up by software
	Dimensions	488 x 309 x 61.7 mm (19.2 x 12.1 x 2.4 in)
OS Support	Weight	5.7 kg (12.56 lb)
	OS Support	Microsoft® Windows 10 IOT LTSC
Power Consumption	Input Voltage	12 ~ 24 V _{DC} 100-240 V _{AC} (90W A/D adapter in the accessory box)
	Power Consumption	65W
LCD	Display Type	18.5" TFT LCD (LED backlight)
	Resolution	1366 x 768
	Viewing Angle	85 (left), 85 (right), 80 (up), 80 (down)
	Luminance (cd/m²)	450
	Contrast Ratio	1000
	Backlight Lifetime	50,000 hr
Touchscreen	Touch Type	10-point multi-touch projected capacitive
	Light Transmission	90 % ± 3 %
	Controller	USB interface
Environment	Operating Temperature	0 ~ 50 °C (32 ~ 122 °F) for SSD
	Storage Temperature	-20 ~ 60 °C (-4 ~ 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, UL, CCC
	Front Panel Protection	IP65 compliant

Dimensions

Unit: mm

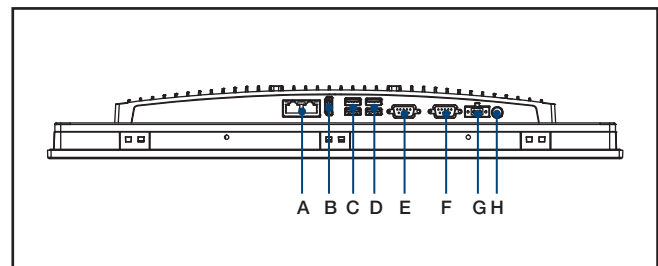


Panel Cutout Dimensions: 479.3 x 300.3 mm (18.87 x 11.82 in)

Ordering Information

Part Number	Description
PPC-3181SW-MART	18.5" Panel PC with Win 10 LTSC and i5-6300U, 8GB DDR4, 128GB 3D TLC SSD, 90W power adapter
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 cord 3P CCC(China) 1.8M
98R3P315100	TPM 2.0 module

I/O View



- A. 2 x LAN
- B. HDMI
- C. 2 x USB 3.0
- D. 2 x USB 2.0

- E. COM2: RS-232/422/485
- F. COM1: RS-232
- G. DC-In
- H. Power Button

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.

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