PPC-3181SW

18.5" Fanless Panel PC with Intel® Core™ i Processor

Features

- Industrial-grade 18.5" LCD panel with 50k backlight lifetime
- True-flat touchscreen with multi-touch projected capacitive control
- High-performance, fanless 6th generation Intel® Core™ i processor
- Up to 16 GB DDR4 SDRAM
- Compact, fanless design with aluminum alloy enclosure
- IP66-rated front panel
- Supports dual displays (1 x external HDMI)
- Supports full-size mini PCIe expansion
- Supports USB 3.0
- Supports VESA 100
- Supports TPM 2.0 (optional)

Vertrieb durch AMC
AMC – Analytik & Messtechnik GmbH Chemnitz
Heinrich-Lorenz-Str. 55 Tel.: +49/371/38388-0
09120 Chemnitz Fax: +49/371/38388-99
E-Mail: info@amc-systeme.de Web: www.amc-systeme.de

Introduction

The PPC-3181SW is an all-in-one light panel PC with a wide format 18.5" industrial-grade LCD. Powered by 6th generation Intel® Core™ i processor, PPC-3181SW provides excellent performance, memory, graphics, and peripheral I/O support in a compact, fanless, embedded system. With a high durability design, PPC-3181SW features a true-flat touchscreen with IP66-rated front panel, and die cast aluminum alloy enclosure, making it ideal for diverse applications.

Specifications

System	CPU	i3-6100U	i5-6300U	i7-6600U
	Cores	Dual Core	Dual Core	Dual Core
	Frequency	2.3 GHz	2.4 GHz; 3.0 GHz with turbo boost	2.6 GHz; 3.4 GHz with turbo boost
	L3 Cache	3 MB	3 MB	4 MB
	TDP	15W	15W	15W
	Memory	1 x SODIMM DDR4 1866/2133 MHz (max. 16 GB) (1.2 V)		
	Storage	1 x 2.5" SATA bay 1 x mSATA bay		
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet (Intel I219LM; Intel I211-AT/I210AT A ver. or Realtek 8119i B ver.)		
	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		
	Expansion	1 x Full-size mini PCIe slot		
	Watchdog Timer	255 timer levels, set up by software		
Physical Characteristics	Dimensions	488 x 309 x 61.7 mm (19.2 x 12.1 x 2.4 in)		
	Weight	5.7 kg (12.56 lb)		
OS Support	OS Support	Microsoft® Windows 7(32/64-bit)/10(64-bit), WES7P, Windows 10 IOT LTSC, Linux		
Power Consumption	Input Voltage	12 ~ 24 V_{DC}		
	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 0 ~ 45 °C (32 ~ 113 °F) for HDD		
	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	IP66 compliant		

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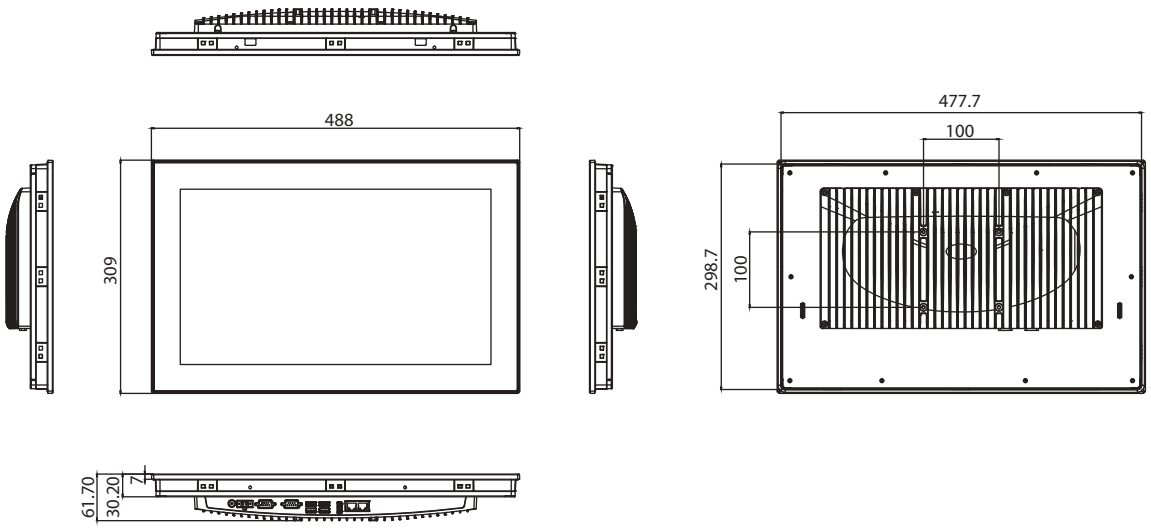
Dimensions

Unit: mm



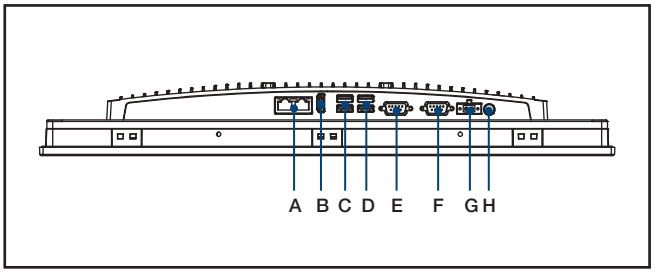
Panel Cutout Dimensions: 479.3 x 300.3 mm (18.87 x 11.82 in)

Ordering Information

Part Number	Description
PPC-3181SW-P65A	Intel Core i5-6300U Fanless PPC with 18.5" LED panel, P-cap T/S, assembled in China
PPC-3181SW-P65B	Intel Core i5-6300U Fanless PPC with 18.5" LED panel, P-cap T/S, assembled in China
PPC-3181SW-P65AU	Intel Core i5-6300U Fanless PPC with 18.5" LED panel, P-cap T/S, assembled in Taiwan
PPC-3181SW-P65BU	Intel Core i5-6300U Fanless PPC with 18.5'' LED panel, P-cap T/S, assembled in Taiwan
PPC-3181SW-P63A	Intel Core i3-6100U Fanless PPC with 18.5" LED panel, P-cap T/S, assembled in China
PPC-3181SW-P63B	Intel Core i3-6100U Fanless PPC with 18.5'' LED panel, P-cap T/S, assembled in China
PPC-3181SW-P67A	Intel Core i7-6600U Fanless PPC with 18.5" LED panel, P-cap T/S, assembled in China
PPC-3181SW-P67B	Intel Core i7-6600U Fanless PPC with 18.5" LED panel, P-cap T/S, assembled in China
96PSA-A90W19OT-3	A/D 100-240V 90W 19V C6 TERMINAL 2 PIN 62368
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 code 3P CCC(China) 1.8M
98R3P315100	TPM 2.0 module

Note:
PPC-3181SW-xxxAx:Intel I219LM + I211-AT/I210AT, 2 x 1GbE LAN chipset
PPC-3181SW-xxxBx:Intel I219LM + Realtek 8119i, 2 x 1GbE LAN chipset

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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