18.5 inch Panel PC Series-1B1
Intel® CoreTM i3 / i5 / i7 up to 10th gen.

- 18.5" TFT LCD, 1920 x 1080 pixels
- Processor: Intel® CoreTM i3 / i5 / i7 up to 10th Gen.
- Die-cast aluminum housing
- Flush frame design, IP65 front side
- Fanless cooling system

https://www.wachendorff-electronics.comPPC002-185B1

Description

WACHENDORFF Series-1 Panel PC

The WACHENDORFF Series-1 industrial panel PCs are available in display sizes ranging from 10" to 23.8" and can be equipped with projected capacitive, resistive or no touch. The projected capacitive touch enables multi-touch operation with an appropriate operating system. If pressure-sensitive operation is required (e.g. with gloves), the resistive touch is the right choice. You can choose from a variety of different processors, from the energy-efficient Intel® Celeron® J4125 to a 10th generation Intel® CoreTM i7. Integrate up to 64 GB of RAM to meet the most demanding requirements. The front panels are absolutely flush with the die-cast aluminum housing. The housing is IP65 rated. The unique fanless thermal design of the die-cast aluminum housing enables effective temperature control.

Product details

Power supply:	Hollow connector 5.5 x 2.5 mm: 12 VDC to 36 VDC 2 pin connector: 12 VDC to 36 VDC
Power consumption:	i3 / i5 / i7 of the 6th and 7th gen. max. 95W i3 / i5 / i7 of the 8th and 10th gen. max. 105W
Display:	18.5" TFT LCD
Resolution:	1920 x 1080 pixels
Aspect ratio:	16:9
Brightness:	300 cd/m² 1000 cd/m² (High Brightness)
Colors:	16,7 M
Reading angle:	89/89/89/89 (L/R/U/D)
Touch screen:	• Projected capacitive touch • Resistive touch • without touch
Glass hardness:	• 6H Projected capacitive touch • 3H Resistive touch • 7H without touch
Processor:	Intel® Core™ i3-6100U (2.3 GHz), Intel® Core™ i5-6200U (2.7 GHz), Intel® Core™ i7-6500U (2.8 GHz), Intel® Core™ i5-7200U (3.1 GHz), Intel® Core™ i7-7500U (3.5 GHz), Intel® Core™ i3-8145U (3.9 GHz), Intel® Core™ i5-8265U (3.9 GHz), Intel® Core™ i7-8565U (4.6 GHz), Intel® Core™ i3-10110U (4.1 GHz), Intel® Core™ i5-10210U (4.2 GHz), Intel® Core™ i7-10510U (4.9 GHz)
RAM:	Max. 32GB for Intel® Core™ up to 7th gen. Max. 64GB for Intel® Core™ from 8th gen.
SSD/HDD:	Max. 1 TB Standard: mSATA Optional: M.2 NVMe
Interfaces:	USB: 2 x USB 2.0 type A, 2 x USB 3.0 type A 6-pin screw terminal: 1x RS-232 (from 15 inch) Ethernet: 2x RJ-45 Gigabit Ethernet, galvanically isolated Display: 1x HDMI, 1x VGA Audio: 1x audio out, 3.5 mm jack Sim Card Slot: Standard SIM (standard without function) WLAN: 1x 802.11 abgn/ac/d/e/i/h/w Bluetooth: 1x Bluetooth 4.0
Expansion slots:	None
Housing:	Die-cast aluminum housing
Assembly:	VESA 75 x 75, VESA 100 x 100 Panel mounting
Protection class:	IP65 on the front
Dimensions (WxHxD):	485 mm x 307.4 mm x 67 mm
Weight:	approx. 4.9 kg
Certifications:	CE, RoHS, FCC, REACH
Ambient conditions:	Operation: -10 °C to +60 °C, Optional WT: -20 °C to +70 °C High Brightness: 0 °C to +50 °C Storage: -20 °C to +70 °C Up to 95 % r. h., non-condensing
Operating systems:	Windows® 10 IoT LTSC Windows® 11 IoT LTSC
Options:	LTE -20 °C to +70 °C (optionally customizable)
Scope of delivery:	1 x device 1 x Mounting material 1 x installation instructions
Customs tariff number:	8471 41 00
Manufacturer:	Wachendorff Prozesstechnik GmbH & Co. KG

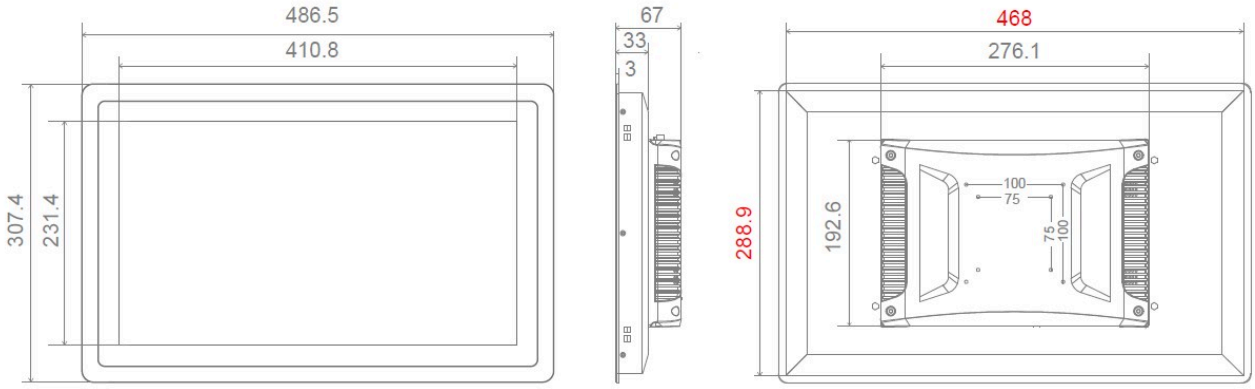
Products Order no.

PPC002-185B	18.5 inch Industrial Panel PC Series-1B, aluminium housing, Intel Core

Accessories Order no.	
PPC-PWRCRD_01	Mains cable / connection cable E+F CEE 7/7 to C13 1.5 m
PPC-PWRADAP_02_24VDC4A	External power supply unit for Intel Core 8./10. Gen. Panel-PC, 230VAC to 24VDC, hollow connector and C14 Stecker
PPC-PWRADAP_03_24VDC5A	External power supply unit for Intel Core 12. Gen. Panel-PC, 230VAC to 24VDC, hollow connector and C14 Stecker
PPC-WALL-VESA-01	VESA wall mount metal, 75 x 75, 100 x100, black, including screw accessory pack
PPC-Stand_01	Industrial monitor/display stand, VESA 100x100, black
PPC-Stand_02	Industrial monitor/display stand, VESA 100x100, silver

Drawings

Dimensions (mm) and STL file/viewer:



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