

## 10.1-inch industrial Panel-PC with multi-touch function AITRON-810CP



- 10.1" TFT LCD, 1280 x 800 pixels
- projected capacitive touch
- Processor: Intel N97 processor, Intel Atom x7425E
- Fanless cooling system
- Reading angle horizontal 170°, vertical 170°

<https://www.wachendorff-prozesstechnik.de/en/aitron-810cp>

### Description

The AITRON-8CP series from Aplex combines Intel N97 or Intel Atom x7425E processors with a fanless design and an IP66-certified aluminum housing. Available in display sizes from 7" to 21.5", this series offers a high brightness of up to 1,000 cd/m<sup>2</sup> and a wide operating temperature range, depending on the display size. The devices have a 7H scratch-resistant, projected capacitive multi-touch surface that enables precise operation. Thanks to the support for DDR5-4800 MHz SO-DIMM memory up to 32 GB and the integration of M.2 slots for SSDs, Wi-Fi/BT modules and LTE/5G connectivity, the AITRON-8CP Panel PCs are flexible and future-proof. The series is designed for demanding industrial environments and is ideal for factory automation, transportation, energy supply, healthcare and outdoor applications where reliability, performance and durability are crucial.

### Product details

Power supply:	9 VDC to 36 VDC
Display:	10.1" TFT LCD
Resolution:	1280 x 800 pixels 1280 x 800 pixels (optional high brightness)
Aspect ratio:	16:10
Brightness:	350 cd/m <sup>2</sup> 1000 cd/m <sup>2</sup> (optional high brightness)
Backlight:	30,000 h 50,000 h (optional high brightness)
Colors:	16.2 M 16.7 M (optional High Brightness)
Reading angle:	H: 170° / V: 170° H: 178° / V: 178° (optional high brightness)
Touch screen:	Projected capacitive touch
Processor:	Intel N97 processor, quad-core, 2.0 GHz Intel Atom x7425E, quad-core, 1.5 GHz
RAM:	1 x DDR5-4800 MHz SO-DIMM, up to 32 GB
SSD/HDD:	1 x M.2 2280 M-Key slot (supports SATA 3.0 and PCIe 3.0 x1, standard: SATA type)

Interfaces:	USB: 2 x USB 3.2 Gen1 Type-A, 2 x USB 2.0 Type-A Serial: 1 x DB9, supports RS-232/422/485 (COM1, BIOS selection, default: RS-232), 1 x DB9, supports RS-232/422/485 (COM2, BIOS selection, default: RS-232, optional) Ethernet: 2 x RJ-45, supports Intel I226V/IT 2.5 GbE LAN Power supply: 1 x terminal block, supports DC 9 to 36 V Display output: 1 x HDMI 1.4, supports resolutions up to 4096 x 2160 @ 30 Hz
Expansion slots	1 x M.2 2230 E-Key (USB 2.0, PCIe x1) for optional Wi-Fi/BT module 1 x M.2 3042/3052 B-Key (PCIe x1, USB 3.2 Gen1, USB 2.0) for optional LTE/5G module 1 x Nano-SIM slot
Housing:	Die-cast aluminum housing
Assembly:	Panel mounting, VESA 100 x 100
Protection class:	IP66-compliant front panel
Dimensions (WxHxD):	270 x 184.9 x 57 mm
Weight:	2,31 Kg
Ambient conditions:	Operation: Standard: -20 °C to +60 °C, High Brightness: 0 °C to +50 °C Storage: -30 °C to +70 °C 10 % to 95 % at 40 °C, non-condensing
Certifications:	CE/FCC Class A
Operating systems:	Windows 10 IoT Enterprise 2021 LTSC or later Windows 11 (21H2) or later
Scope of delivery:	Device 1 x power supply unit 1 x mounting material
Customs tariff number:	84715000
Manufacturer:	Aplex Technology Inc.

### Products Order no.

ARCHMI-810BP	10.1" industrial panel PC, projected capacitive touch
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### Accessories Order no.

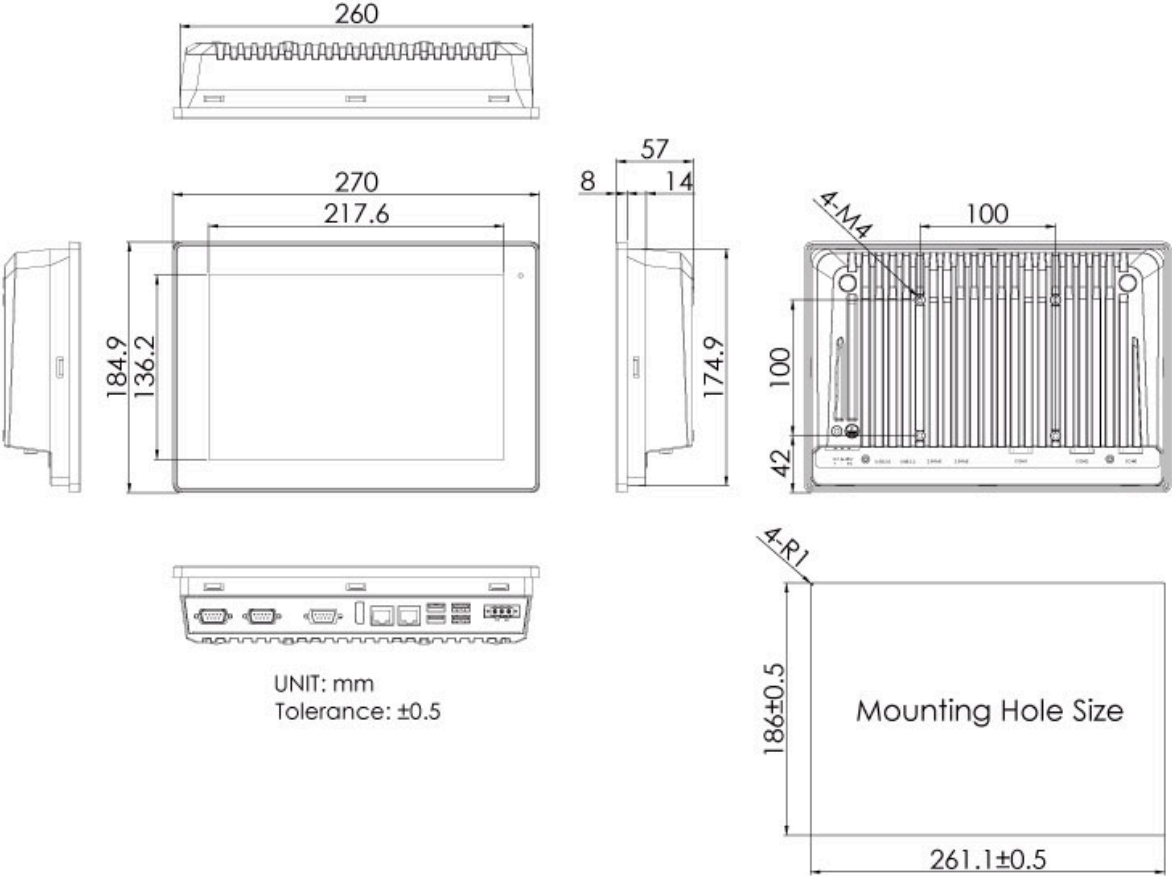
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ETHSWG5C	5-way Ethernet switch, Gigabit, unmanaged
ETHSWG8C1	8-port Ethernet switch, Gigabit, unmanaged
KABETH10	Patch cable, RJ45 UTP CCA, CAT5e white, 0.3 m
KABETH11	Patch cable, RJ45 UTP CCA, CAT5e white, 1 m
KABETH12	Patch cable, RJ45 UTP CCA, CAT5e white, 2 m

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**Drawings**

**Dimensions (mm):**



UNIT: mm  
Tolerance:  $\pm 0.5$



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