

21.5-inch industrial Panel-PC with multi-touch function AITRON-921EP



- 21.5" TFT LCD, 1920 x 1080, FHD pixels
- projected capacitive touch
- Processor: Intel Core Ultra 5 125U, Intel Core Ultra 7 155U
- Fanless cooling system
- Reading angle horizontal 178°, vertical 178°

<https://www.wachendorff-prozesstechnik.de/aitron-921ep>

Description

The AiTRON-9E series from Apex combines powerful Intel® Core Ultra 5/7 processors with a robust, fanless design and an IP66-certified aluminum housing. Available in display sizes from 10.1" to 21.5", this series offers high brightness of up to 1,000 nits and a wide operating temperature range of -20 °C to +60 °C. The devices have a 7H scratch-resistant, projected capacitive multi-touch surface that enables precise operation. Thanks to support for DDR5-5600 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-9E 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
Power consumption:	TBD
Display:	21.5" TFT LCD
Resolution:	1920 x 1080, FHD pixels 1920 x 1080, FHD pixels (optional High Brightness)
Aspect ratio:	16:9
Brightness:	250 cd/m² 1000 cd/m² (optional high brightness)
Backlight:	50,000 h 50,000 h (optional High Brightness)
Colors:	16.7 M 16.7 M (optional High Brightness)
Reading angle:	H: 178° / V: 178° H: 170° / V: 170° (optional high brightness)
Touch screen:	Projected capacitive touch
Processor:	Intel Core Ultra 5 125U (2 P-cores × 1.3 GHz, 8 E-cores × 0.8 GHz, 12 MB cache, 15 W) Intel Core Ultra 7 155U (2 P-cores × 1.7 GHz, 8 E-cores × 1.2 GHz, 12 MB cache, 15 W)
RAM:	1 × DDR5-5600 MHz SO-DIMM, up to 32 GB
SSD/HDD:	1 × M.2 2280 M-Key slot (PCIe 3.0 ×4)

Interfaces:	USB: 4 x USB 3.2 Gen1 Type-A Serial: 1 × DB9, supports RS-232/422/485 (COM1, BIOS selection, RS-232 standard), 1 × DB9, supports RS-232/422/485 (COM2, BIOS selection, RS-232 standard), optional, 1 × DB9, supports RS-232 (COM3), optional Ethernet: 2 × RJ-45, supports Intel I226V/IT 2.5 GbE LAN Power supply: 1 × terminal block, supports DC 9 to 36 V Display output: 1 × HDMI 2.1 resolution up to 7680 × 4320 @ 60 Hz, 1 × DP 1.4 resolution up to 7680 × 4320 @ 60 Hz
Expansion slots	1 × M.2 2230 E-Key (USB 2.0, PCIe ×1) for optional Wi-Fi/BT module 1 × M.2 3042/3052 B-Key (PCIe ×1, USB 3.2 Gen1, USB 2.0) for optional LTE/5G module 1 × Nano-SIM slot
Housing:	Die-cast aluminum housing
Assembly:	Panel mounting, VESA 100 x 100
Protection class:	IP66-compliant front panel
Dimensions (WxHxD):	592.6 mm x 321.3 mm x 65.5 mm
Weight:	TBD
Ambient conditions:	Operation: 0 °C to +50 °C Storage: -10 °C to +60 °C 10% to 95 %r.h., non-condensing
Certifications:	CE/FCC Class A
Operating systems:	Windows 10 IoT Enterprise 2021 LTSC or higher Windows 11 (21H2) or higher
Scope of delivery:	Device 1 x power supply unit 1 x mounting material
Customs tariff number:	84715000
Manufacturer:	Apex Technology Inc.

Products Order no.

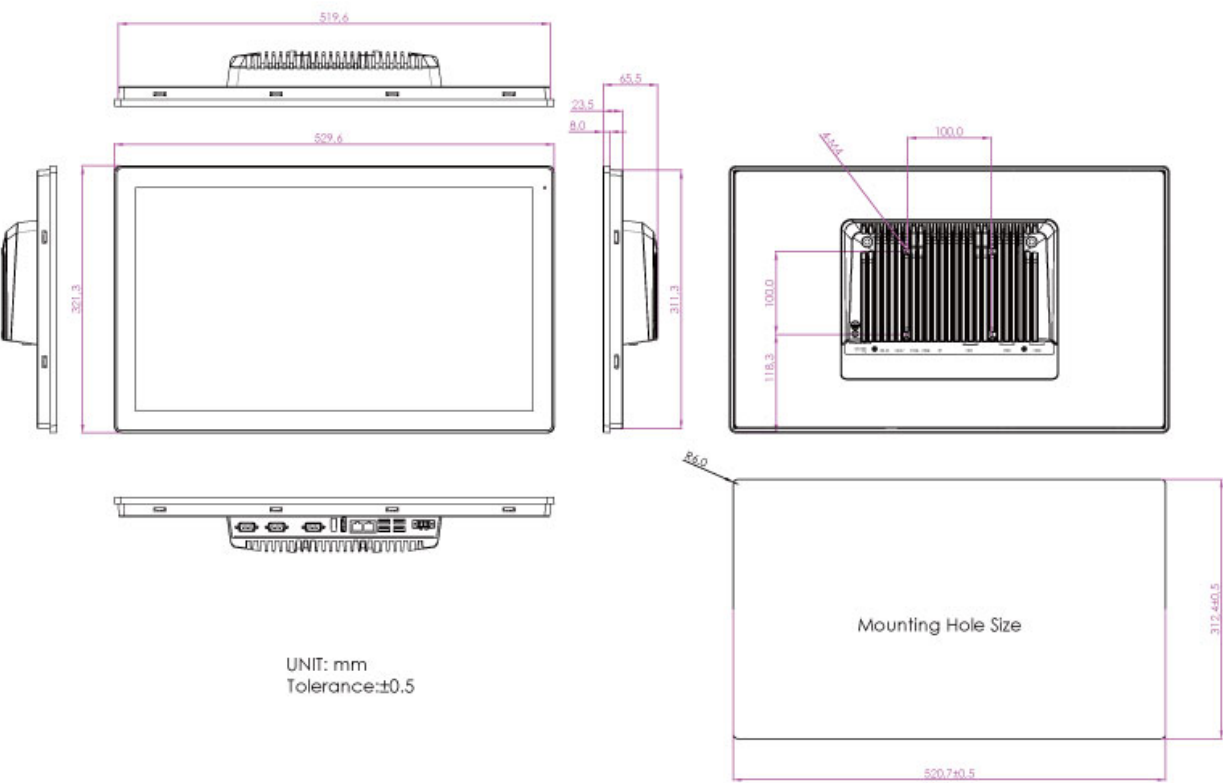
ARCHMI-821BP	21.5" industrial panel PC, projected capacitive touch
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Accessories Order no.

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

Drawings

Dimensions (mm):





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