

## 12.1-inch industrial Panel-PC with multi-touch function AITRON-912EP



- 12.1" TFT-LCD, 1024 x 768 pixels
- projected capacitive touch
- Processor: Intel Core Ultra 5 125U, Intel Core Ultra 7 155U
- Fanless cooling system
- Reading angle horizontal 170°, vertical 170°

<https://www.wachendorff-prozesstechnik.de/aitron-912ep>

### 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:           | 12.1" TFT LCD                                                                                                                                                                  |
| Resolution:        | 1024 x 768 pixels<br>1024 x 768 pixels (optional high brightness)                                                                                                              |
| Aspect ratio:      | 4:3                                                                                                                                                                            |
| Brightness:        | 350 cd/m²<br>1000 cd/m² (optional high brightness)                                                                                                                             |
| Backlight:         | 30,000 h<br>70,000 h (optional high brightness)                                                                                                                                |
| Colors:            | 16.2 M<br>16.7 M (optional High Brightness)                                                                                                                                    |
| Reading angle:     | H: 170° / V: 170°<br>H: 178° / V: 178° (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)<br>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)                                                                                                                                          |

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|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interfaces:            | USB: 4 x USB 3.2 Gen1 Type-A<br>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<br>Ethernet: 2 × RJ-45, supports Intel I226V/IT 2.5 GbE LAN<br>Power supply: 1 × terminal block, supports DC 9 to 36 V<br>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<br>1 × M.2 3042/3052 B-Key (PCIe ×1, USB 3.2 Gen1, USB 2.0) for optional LTE/5G module<br>1 × Nano-SIM slot                                                                                                                                                                                                                                                                                                               |
| Housing:               | Die-cast aluminum housing                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Assembly:              | Panel mounting, VESA 100 x 100                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Protection class:      | IP66-compliant front panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dimensions (WxHxD):    | 291 mm x 230 mm x 64 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Weight:                | TBD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Ambient conditions:    | Operation: -20 °C to +60 °C<br>Storage: -30 °C to +70 °C<br>10% to 95 %r.h., non-condensing                                                                                                                                                                                                                                                                                                                                                                                                  |
| Certifications:        | CE/FCC Class A                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Operating systems:     | Windows 10 IoT Enterprise 2021 LTSC or higher<br>Windows 11 (21H2) or higher                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Scope of delivery:     | Device<br>1 x power supply unit<br>1 x mounting material                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Customs tariff number: | 84715000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Manufacturer:          | Apex Technology Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### Products Order no.

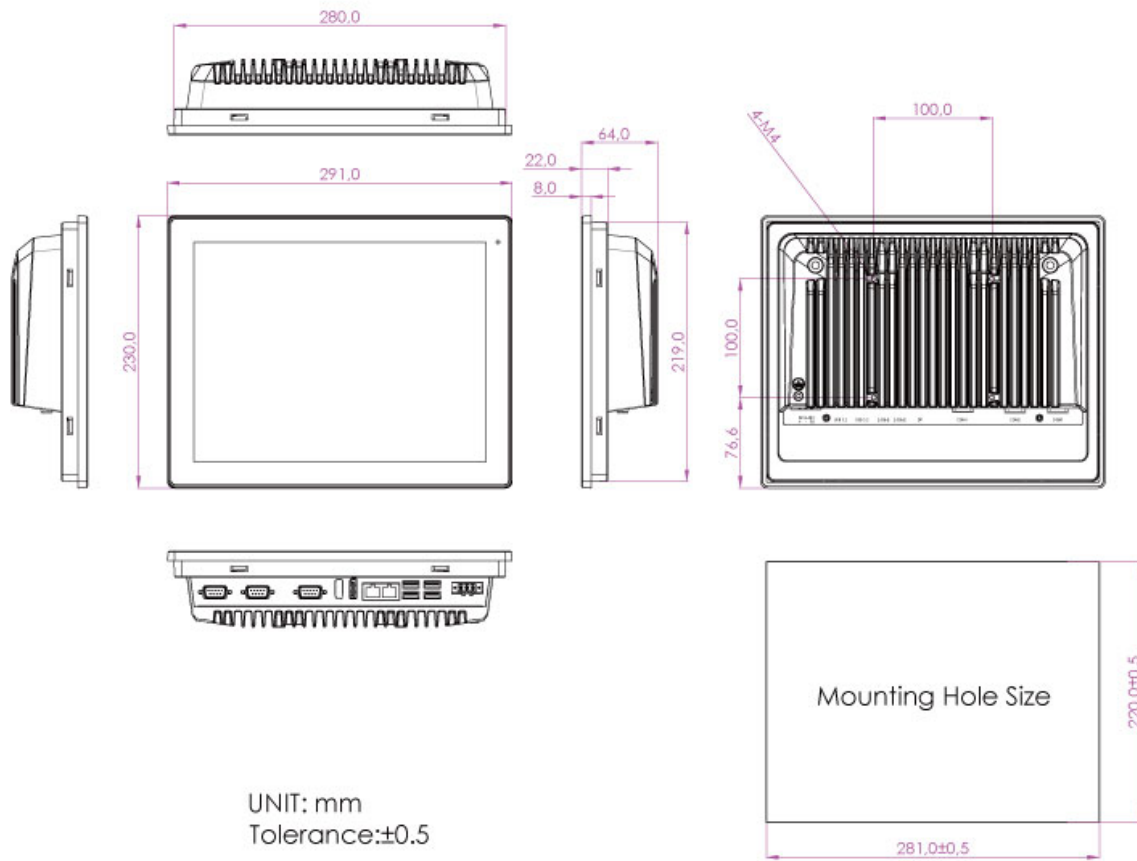
|              |                                                       |
|--------------|-------------------------------------------------------|
| ARCHMI-812BP | 12.1" industrial panel PC, projected capacitive touch |
|--------------|-------------------------------------------------------|

### 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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