# 12.1 inch Panel PC ARCHMI-912BG



- 12.1" TFT LCD, 800 x 600 pixels (optional 1024 x 768 pixels)
- without touch function
- Processor: Intel® Core™ i3-6100U / i5-6300U
- Fanless cooling system
- Reading angle horizontal 178°, vertical 178°

**https://www.wachendorff-prozesstechnik.de/en/ARCHMI-912BG**

## Description

The ARCHMI-9B series is based on an 8th generation Intel® Core™-i processor.
This very powerful and efficient processor family provides sufficient computing power for medium and large applications. The RAM can be expanded to up to 32 GB, enabling more extensive projects such as SCADA or IIoT monitor control applications. The Panel PCs in this series are available in display sizes ranging from 12.1" to 32" and can be equipped with projected capacitive, resistive or no touch. The projected capacitive touch enables multi-touch operation with a corresponding operating system. If pressure-sensitive operation is required (e.g. with gloves), the resistive touch is the right choice. The front panels are absolutely flush with the die-cast aluminum housing. The housing is IP66 rated. The unique fanless thermal design of the die-cast aluminum housing enables effective temperature control. The ARCHMI IPC can be optionally equipped with a high-brightness LCD and/or optical bonding for an outstanding display, even under difficult conditions. Expansion cards for additional interfaces or WLAN can also be integrated.

## Product details

| | |
|---|---|
| Power supply: | 9 VDC to 36 VDC |
| Power consumption: | max. 45.54 W |
| Display: | 12.1" TFT LCD |
| Resolution: | 800 x 600 pixels<br>1024 x 768 pixels (optional) |
| Aspect ratio: | 4:3 |
| Brightness: | 450 cd/m²<br>500 cd/m² (optional 1024 x 768 pixels)<br>1000 cd/m² (optional high-brightness LCD) |
| Colors: | 262 thousand<br>16.2 million (optional 1024 x 768 pixels) |
| Reading angle: | H: 178° / V: 178°<br>H: 178° / V: 178° (optional 1024 x 768 pixels)<br>H: 178° / V: 178° (optional high-brightness LCD)<br>H: 178° / V: 178° (optional high-brightness LCD with 1024 x 768 pixels) |
| Touch screen: | without touch function |
| Processor: | Intel® Core™ i3-8145UE (3.9 GHz)<br>Intel® Core™ i5-8365UE (4.1 GHz) |
| RAM: | up to 32 GB DDR4 2400 MHz SO-DIMM |
| SSD/HDD: | 1 x SATA3 2.5" |
| Interfaces: | USB: 2 x USB 3.0 type A<br>Serial: COM1: RS232 / RS422 / RS485; COM2: RS232<br>Ethernet: 2x GbE 10/100/1000 Base T (X), RJ45<br>Audio: 3.5 mm jack<br>Power supply: pluggable 3-pin terminal strip<br>On/off switch: optional plug-in 2-pin terminal strip, see accessories IPC_DIO_2P |
| Expansion slots | 1 x Mini PCIe full height (internal) |
| Housing: | Die-cast aluminum |
| Assembly: | VESA 100 x 100; panel mounting |
| Protection class: | IP66 on the front |
| Dimensions (WxHxD): | 319 mm x 245 mm x 51.7 mm |
| Weight: | approx. 2.8 kg |
| Ambient conditions: | Operation: 0 °C to +50 °C ;<br>Storage: -30 °C to +70 °C<br>10% to 90 %.rH, non-condensing. |
| Certifications: | CE/FCC Class A |
| Operating systems: | Windows® 10 IoT LTSC<br>Windows® 11 IoT LTSC |

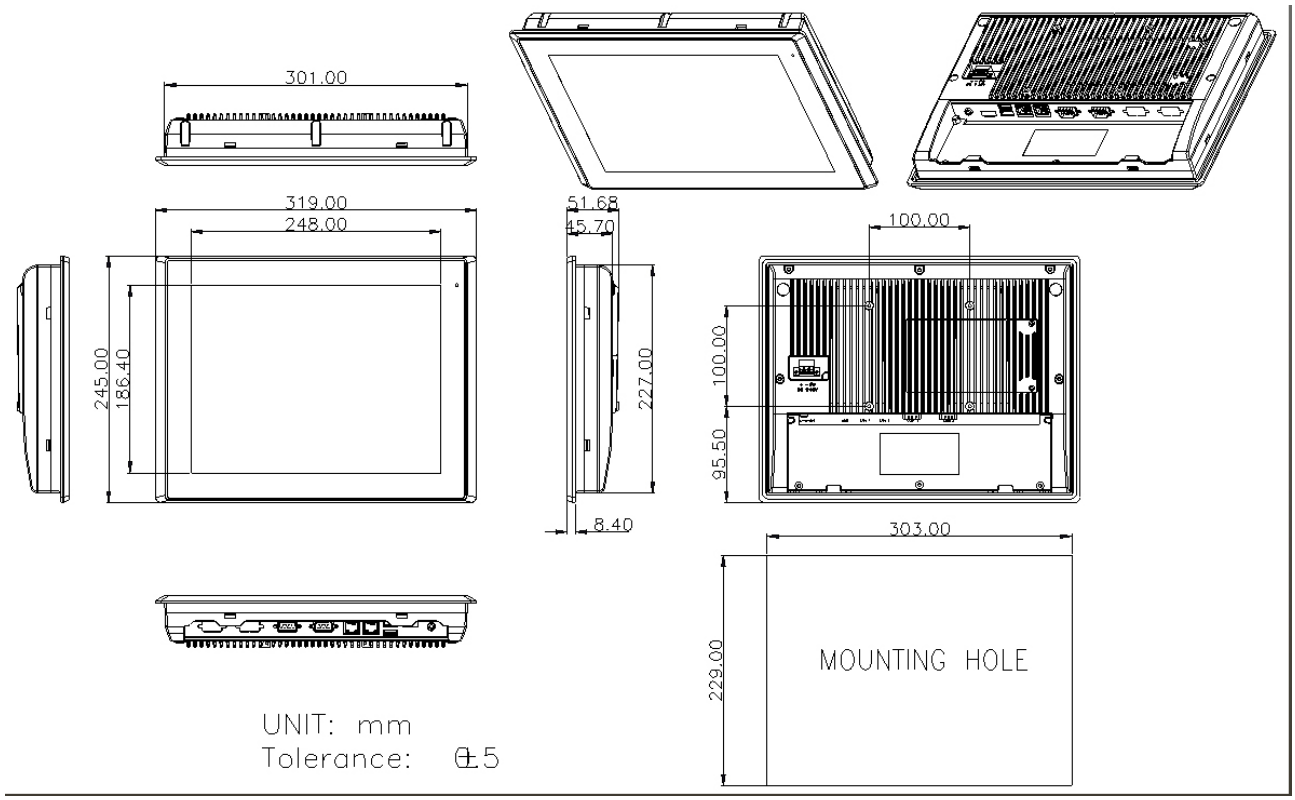
| | |
|---|---|
| Options: | VGA<br>HDMI<br><br>4 x USB 2.0<br>2 x USB 2.0 + 1 x COM (RS-232)<br>2 x USB 2.0 + 1 x COM (RS-232) + 1 x power button<br>2 x USB 2.0 + 1 x COM (RS-232) + 1 x power button + 1 x Mini PCIe + 1 x SIM card slot<br>2 x USB 2.0 + 1 x Mini PCIe + 1 x SIM card slot<br>2 x USB 2.0 + 1 x LAN<br>2 x USB 2.0 + 1 x LAN + 1 x 30 W POE<br>2 x USB 2.0 + 1 x LAN + 1 x 45 W POE<br>2 x USB 2.0 + 2 x CAN + 1 x Mini-PCIe + 1 x SIM card slot<br>2 x COM (RS-232)<br>2 x COM (RS-232) + 1 x Mini PCIe + 1 x SIM card slot<br>2 x COM (RS-232/RS-485, isolated)<br><br>WLAN 2.4GHz, BT4<br>WLAN 2.4GHz, 5GHz, BT4<br><br>Optical bonding<br>High Brightness Display<br>Smart Battery (only without interface extension) |
| Scope of delivery: | Device<br>1 x power supply unit<br>1 x mounting material |
| Customs tariff number: | 84715000 |
| Manufacturer: | Aplex Technology Inc. |

| **Products Order no.** | |
|---|---|
| ARCHMI-912BG | 12.1" industrial panel PC, without touch function |

| **Accessories Order no.** | |
|---|---|
| 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 |
| IPC_DIO_2P | 2-pin connector plug, digital input |

## Drawings

**Dimensions (mm):**




## Downloads / FAQ

The following files could be downloaded from our website directly from this product under the tab "Drawings":

**2D drawing Panel PC ARCHMI-912**

Panel-PC-ARCHMI-X12.dwg

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