# AEOLUS-SV12-6L2C

**TP-IPC®**
TO BE YOUR PARTNER OF INDUSTRIAL PC

Windows 10/11 | Linux | CCC | FC | RoHS COMPLIANT 2002/95/EC

- 12th-14th Gen Intel® Core™ i7/i5/i3 with Desktop-grade Intel® H610 chipset, support processor up to 65W TDP;

- Comes with On board 6 channels Gigabit LAN, supports Wake-on-LAN, PXE;

- Supports 4G/WIFI wireless internet access and enables wireless remote control assistance in various environments;

- 2*RS232/RS485 (Switchable via DIP switches or BIOS);

- Equipped with HDMI/DP interfaces, Sync/Async HD video output supported;

- Supports DC 12V-24V power supply with resistance to current interference;

- Supports multiple installation methods: wall-mounted, vertical, and DIN rail mounting

- Adopts open grille with built-in cooling fans & copper tube heat dissipation system, ensuring excellent heat dissipation performance;
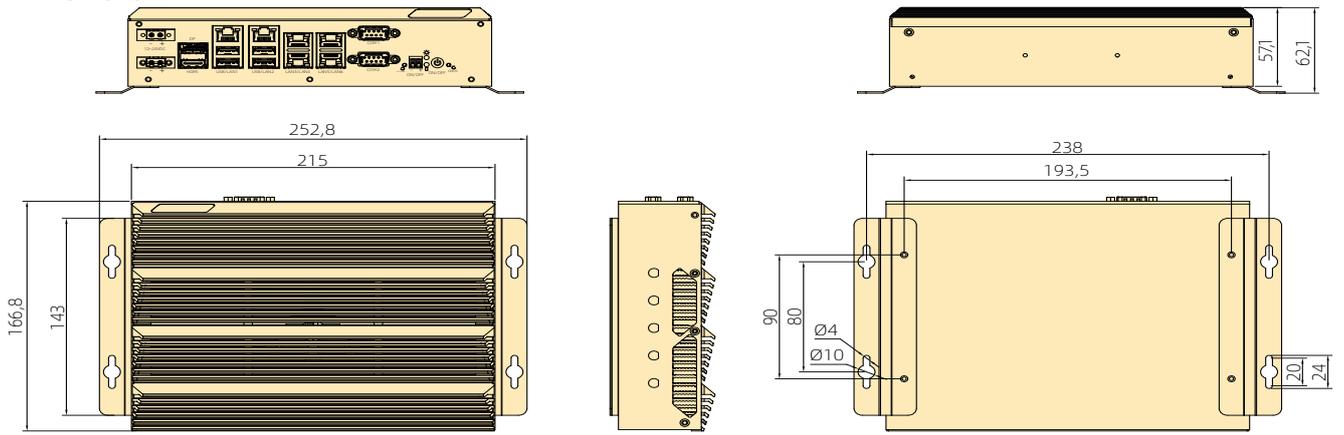
The actual appearance is subject to the final configuration.

## Specifications

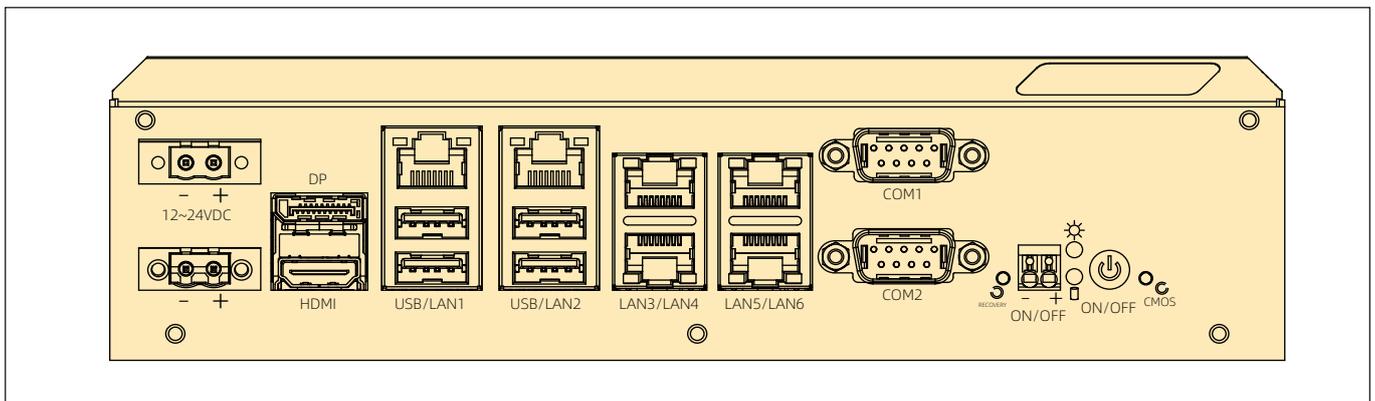| Model | | AEOLUS-SV12-6L2C |
|---|---|---|
| Supported OS | | Win 10, Win 11, Linux (Ubuntu, Dibian, Kali, CentOS), Win 10 IoT |
| Chipset | Model | Intel® H610 Chipset, TDP 6W |
| | Intel VT-d | Supported |
| CPU | Socket | Intel® Desktop Processors Socket LGA1700 |
| | Series | 12th-14th Gen. Intel® Core™ i7/ i5 /i3 Processor |
| | TDP | Up to 65W |
| | Graphic | Intel® UHD Graphics (depends on processor model) |
| | BIOS | AMI UEFI BIOS |
| RAM | SO-DIMM | 2* DDR4 3200 MHz SO-DIMM Socket, Capacity up to 64GB; |
| Storage Device | M.2 | 1* M.2 (NGFF) 2280 M-key slot, support SATA3.0 (6Gps) SSD |
| I/O Interface | COM | 2* RS232/RS485, switchable via switches or BIOS |
| | Ethernet | 5* Intel i210-AT GbE LAN, 1* Intel i219-V GbE LAN; Supports wake-on-LAN, PXE |
| | USB | 4* USB 3.2;<br>1* Internal USB 2.0;<br>2* 4-Pin USB 2.0 internal header |
| | Video | 1* HDMI (Max Resolution: 4096x2160 @30Hz);<br>1* DP (Max Resolution: 4096x2160 @30Hz); |
| | SIM | 1* Nano SIM connected to Mini-pcie, support 4G wireless |
| | Power Supply | DC 12V-24V, Auto detected, support RVP/OVP/OCP;  2* 2-PIN green connector, 5.08mm |
| | Featured Interface | 1* Clear CMOS;<br>1* Recovery Button; |
| Extended Capabilities | Additional Internal Interface | 1* Full Size Mini-PCIe slot (PCIE x1 GEN3), optional CAN/LAN/WiFi ect.<br>1* Full Size Mini-PCIe (USB2.0), support 4G; |
| Environment | Operating Temp. | -10 ~ 60 ℃ w/ 0.7m/s Airflow |
| | Storage Temp. | -40 ~ 85 ℃ (-40~185 °F) |
| | Relative Humidity | 40 ℃ @95%, Non-Condensing |
| Physical Characteristics | Dimensions | 215* 57.1* 166.8 mm  (W* H* D) |
| | Net Weight | 2.20 KG |
| Regulation | EMC | CE/FCC Class B, CCC |
| | Safety | CE-LVD, RoHS, CCC |

## Dimension

Unit:mm



The actual appearance and dimensions are subject to the final configuration

## Front Panel External IO Mechanical Layout/Drawing



## Ordering Information

| SO-DIMM Socket | M.2 2280 M-key Slot | Full Size Mini-PCIe | RS232/RS485 switchable | GbE LAN | Nano SIM Card Slot | Clear CMOS |
|---|---|---|---|---|---|---|
| 2 | 1 | 2 | 2 | 6 | 1 | 1 |

| USB3.2 | USB2.0 Header | Internal USB 2.0 (4-Pin) | HDMI | DP | Remote Switch Button | Power Supply |
|---|---|---|---|---|---|---|
| 4 | 2 | 2 | 1 | 1 | 1 | DC 12V-24V |

## Processors Info & Available List

| CPU | Code Name | Total Cores | Total Threads | Max Turbo Frequency | Base Frequency | Cache | TDP | Memory Types | Integrated Graphics |
|---|---|---|---|---|---|---|---|---|---|
| Intel® Core™ I3-12100 | Alder Lake | 4 | 8 | 4.30 GHz | 3.30 GHz | 12 MB Intel® Smart Cache | 60W | DDR4 | Intel® UHD Graphics 730 |
| Intel® Core™ I5-12400 | Alder Lake | 6 | 12 | 4.40 GHz | 2.50 GHz | 18 MB Intel® Smart Cache | 65W | DDR4 | Intel® UHD Graphics 730 |
| Intel® Core™ I7-12700 | Alder Lake | 12 | 20 | 4.90 GHz | 2.10 GHz | 25 MB Intel® Smart Cache | 65W | DDR4 | Intel® UHD Graphics 770 |
| Intel® Core™ I9-12900 | Alder Lake | 16 | 24 | 5.10 GHz | 2.40 GHz | 30 MB Intel® Smart Cache | 65W | DDR4 | Intel® UHD Graphics 770 |
| Intel® Core™ I3-13100 | Alder Lake | 4 | 8 | 4.50 GHz | 3.40 GHz | 12 MB Intel® Smart Cache | 60W | DDR4 | Intel® UHD Graphics 730 |
| Intel® Core™ I5-13400 | Alder Lake | 10 | 16 | 4.60 GHz | 2.50 GHz | 20 MB Intel® Smart Cache | 65W | DDR4 | Intel® UHD Graphics 730 |
| Intel® Core™ I7-13700 | Alder Lake | 16 | 24 | 5.20 GHz | 2.10 GHz | 30 MB Intel® Smart Cache | 65W | DDR4 | Intel® UHD Graphics 770 |
| Intel® Core™ I3-14100 | Alder Lake | 4 | 8 | 4.70 GHz | 3.50 GHz | 12 MB Intel® Smart Cache | 60W | DDR4 | Intel® UHD Graphics 730 |
| Intel® Core™ I5-14400 | Alder Lake | 10 | 16 | 4.70 GHz | 2.50 GHz | 20 MB Intel® Smart Cache | 65W | DDR4 | Intel® UHD Graphics 730 |
| Intel® Core™ I7-14700 | Alder Lake | 20 | 28 | 5.40 GHz | 2.10 GHz | 33 MB Intel® Smart Cache | 65W | DDR4 | Intel® UHD Graphics 770 |

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# TP-IPC® AEOLUS-SV12-6L2C

## Packing list

| Deafult Items | Qty |
|---|---|
| AEOLUS-SV12-6L2C Unit | 1 |
| Wall-mounted bracket | 1 |
| AC-to-DC Adapter | 1 |
| Power cable 3-pin 150cm | 1 |

## Options for default items

| Optional Items | Qty |
|---|---|
| Power cable 3-pin 150cm, USA type | - |
| Power cable 3-pin 150cm, EU type | - |
| Power cable 3-pin 150cm, UK type | - |

## Optional accessories or internal modules for unit

| Optional Items | Max Qty | Description |
|---|---|---|
| 4G Module | 1 | Connected by Mini-PCIe interface |
| WiFi Module without AP mode | 1 | Connected by Mini-PCIe interface |
| EtherCAT | 1 | EtherCAT Master, supporting a maximum of 16 slaves (servos + I/O) at a 1ms cycle |

‼️ Note: As this product has expansion slots, please consult sales for the specific maximum number of expandable interfaces.

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