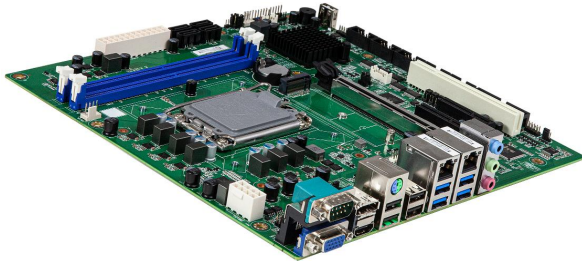


# AIoT9-H610

## Standard Micro ATX industrial motherboard

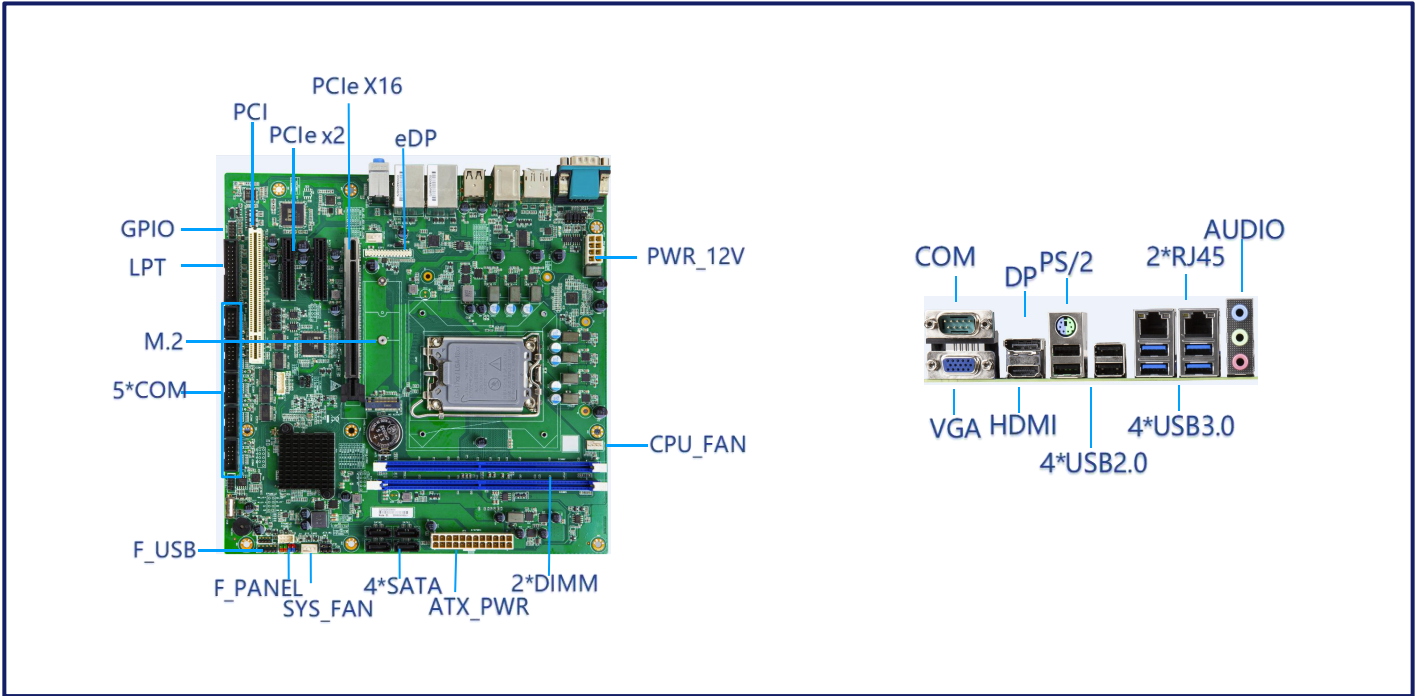


- Support LGA1700 packaged Gen12&13&14 i9/i7/i5/i3 CPUs
- 2 DDR4 UDIMM slots support up to 64GB
- PCIe5.0 x16, 2 PCIe3.0 x2 and 1 PCI slots
- 4 USB3.0 ports can connect to Industrial cameras
- Four display port, support Triple-display
- Using high Tg grade PCB boards to ensure wide temperature stability
- Industrial grade IO protection device, blocking ESD and surges, ensuring system stability and reliability
- Optimized interface and expansion layout effectively avoid interference and facilitate expansion for industry users

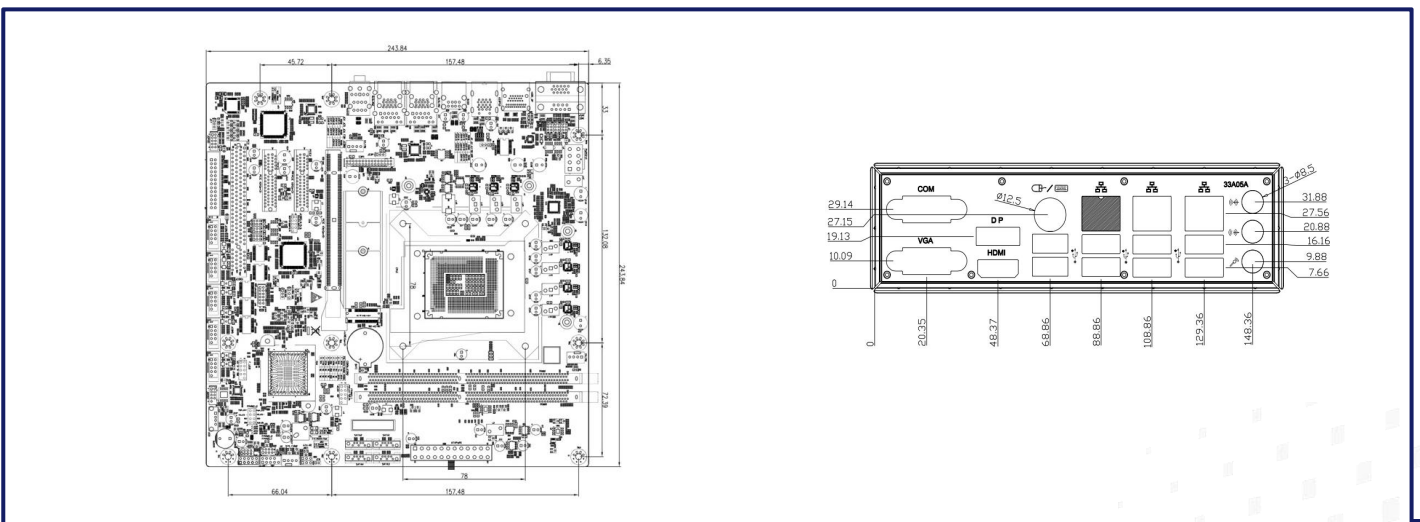
## 01 Specifications

|  |  |
|--|--|
| CPU                                    | Support LGA1700 packaged Gen12&13&14 i9/i7/i5/i3 CPUs, TDP 65W   |
| Chipset                                | Intel ® H610 chipset   |
| Memory                                 | 2 * 288Pin DDR4 UDIMM memory slot, single slot 32GB maximum support 64GB<br>Depending on the assigned CPU support DDR4-2133/2400/2666/2933/3200            |
| Display controller                     | Intel CPU Integrated display controller (depending on the assigned CPU)  |
| Display interface                      | VGA + HDMI + DP + eDP four display port, support Triple-display  |
| Storage                                | 4 SATA 3.0 (6 Gb/s) Ports<br>1 M.2 2242/2280 Key-M supports Nvme x2 SSD  |
| Audio                                  | Rear IO supports MIC-In, Speaker-Out, Line-In audio jack,  |
| Network                                | 2 Intel high-speed Ethernet ports: LAN1 i226-V; LAN2 i219V   |
| USB                                    | 8 rear IO USB( 4*USB3.0, 2*USB2.0 Type A ) ; 2 internal USB(1*USB 2.0 Type-A)<br>Chassis front panel USB interface F_USB1 and F_USB2 , choose one from two |
| Parallel/I <sup>2</sup> C/SMBus        | 1 * parallel port  |
| Serial port                            | 6 serial port (COM1&2 supports RS232/422/485, COM3-6 supports RS232)   |
| Keyboard & mouse                       | 1 PS/2 Keyboard & mouse via 2-in-1 connector on the rear IO  |
| Digital I/O                            | 8-bit digital I / O, providing power supply and ground, + 5V level   |
| LPC/eSPI                               | 1 eSPI bus   |
| TPM interface                          | On board encryption chip SLB9670, supporting TPM2.0  |
| Power supply                           | ATX power Socket, supports ATX/AT On/Off mode<br>Chassis front panel FPANEL1 and FPANEL2 Pin-header , choose one from two                                  |
| Expansion bus                          | 1 * PCIe 5.0 x16 slot, maximum data bandwidth 64GB/s;<br>2 * PCIe 3.0 x4 slots(x2 signal), maximum data bandwidth 2GB/s<br>1 * Standard PCI slot (32bit)   |
| Operating temperature and humidity     | -10°C~60°C, relative humidity 0%~90%, no condensation, air pressure 85-105kPa  |
| Non-operating temperature and humidity | -40°C~85°C, relative humidity 0%~90%, no condensation, air pressure 85~105kPa  |
| Watch Dog                              | 255-level programmable in the mode of seconds/minutes, supports timeout interrupt or system reset  |
| BIOS                                   | AMI UEFI BIOS  |
| Operating System                       | Win10 x64, Win11 x64, Linux Ubuntu 22.04   |
| PCB dimensions (L*W)                   | 244mm X 244mm  |

## Product view



## Dimensions



## Product Selection

| Product model | Chipset | Memory | Display | Storage | USB3 | USB2 | COM | LAN | PCI  | PCIe  |
|---------------|---------|--------|---------|---------|------|------|-----|-----|------|-------|
| AIO9-H610     | H610    | 2 DDR4 | 4(3)    | 4SATA   | 4    | 6    | 6   | 2   | 1PCI | 3PCIe |