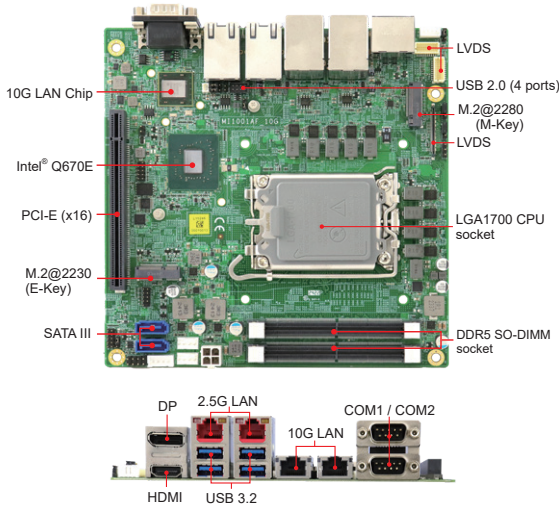




MI1001AF-10G Board with heatsink

## Specifications

|                          |                                                                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU Socket               | LGA1700                                                                                                                                                   |
| CPU                      | 14th/13th/12th Gen Intel® RPL-S Refresh Core i/DT processors                                                                                              |
| PCH                      | Q670E                                                                                                                                                     |
| Memory                   | 2x DDR5 SO-DIMM sockets, supports DDR5 -5600 memory module, Max. 64GB<br>*DDR5-5600 only by Core i9/i7 Processor & 1R memory module*                      |
| BIOS                     | AMI                                                                                                                                                       |
| Watchdog Timer           | 256 levels                                                                                                                                                |
| H/W Monitor              | Yes                                                                                                                                                       |
| Storage Device Interface | SATA III & NVMe                                                                                                                                           |
| Expansion Slots          | 1x PCI-E (x16) [Gen 5.0]                                                                                                                                  |
| Mini Type Slots          | 1x M.2 (M-Key, type:2280, PCI-E(4x) Gen.4)<br>1x M.2 (E-Key, type:2230, USB 2.0 + PCI-E 3.0)                                                              |
| Graphics Controller      | 14th Gen Intel® RPL-S Refresh DT processor integrated Xe graphics architecture                                                                            |
| Video Output             | 1x eDP + 1x DisplayPort (1.4a) (DP++)<br>+ LVDS + 1x HDMI (2.0)                                                                                           |
| Ethernet                 | LAN 1: Intel® I226LM, supports 2.5G and iAMT<br>LAN 2: Intel® I226V, supports 2.5G only<br>LAN 3&4: Intel® X550-AT2, supports 10G (For MI1001AF-10G only) |
| I/O Chipset              | Fintek F81966AB-I                                                                                                                                         |
| Serial Port              | 2x COM ports: 1x RS232/422/485 + 1x RS232                                                                                                                 |
| USB 2.0                  | 2x USB 2.0 via pin-header                                                                                                                                 |
| USB 3.X                  | 4x USB 3.2 (10Gbps) @ edge connector                                                                                                                      |
| Serial ATA               | 2x SATA III                                                                                                                                               |
| Audio                    | N/A                                                                                                                                                       |
| TPM                      | dTPM                                                                                                                                                      |
| Others                   | Digital I/O (4-in/4-out), Watchdog timer                                                                                                                  |
| Dimensions (L x W)       | 170mm x 170mm (6.7" x 6.7")                                                                                                                               |
| Power Consumption        | Intel® Core™ i9-14900 processor, Up to 5.80GHz<br>w/2 x 32G DDR5-5600<br>+24V: 7.15A                                                                      |
| Operating Temperature    | 0°C~60°C (32°F~140°F)                                                                                                                                     |
| Storage Temperature      | -20°C~80°C (-4°F~176°F)                                                                                                                                   |
| Relative Humidity        | 90% (non-condensing @60°C)                                                                                                                                |

## Features

- 14th/13th/12th Gen Intel® Core i9/i7/i5/i3 DT processors
- 2x DDR5 SO-DIMM sockets, Max. 64GB
- Intel processor integrated graphic supports eDP, LVDS and 1x DisplayPort(1.4a) (DP++), HDMI(2.0)
- 2x Intel® 2.5G LAN & 2x Intel® 10G LAN
- 4x USB 3.2, 2x USB 2.0, 2x COM, 2x SATA III
- 1x PCI-E (x16) [Gen.5.0]; 2x M.2 (E-Key and M-Key )
- supports watchdog timer, Digital I/O, iAMT(16.1), TPM (2.0), **+24V only DC input**

## Ordering Information

|              |                                                                                                                                                                                                    |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MI1001AF-10G | LGA1700 MiniITX Motherboard, Q670E PCH, w/ Dual 10GbE, Dual 2.5GbE, HDMI + DisplayPort + eDP + LVDS, 2x SATA III, 2x COM, 2x M.2 (M2280/ E2230), supports iAMT(16.1) & dTPM(2.0), DC-in (24V only) |
| MI1001AF-Q   | LGA1700 MiniITX Motherboard, Q670E PCH, w/ Dual 2.5GbE, HDMI + DisplayPort + eDP + LVDS, 2x SATA III, 2x COM, 2x M.2 (M2280/E2230), supports iAMT(16.1) & dTPM (2.0), DC-in (24V only)             |

## Dimensions and Drawing

