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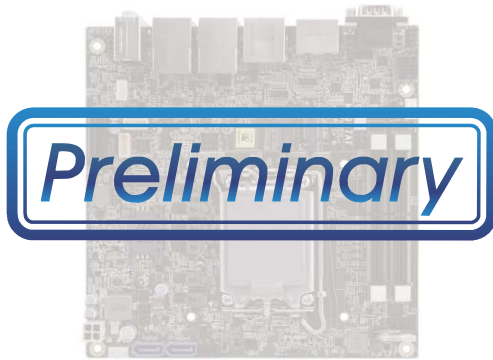


Datasheet

iBase

MI1001

Mini ITX Motherboard 14th/ 13th/ 12th Gen Intel® Core i9/i7/i5/i3 DT processors with Intel® Q670E PCH



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**

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 *DDR5-5600 only by Core 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) 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++) + LVDS + 1x HDMI (2.0) |
| Ethernet | LAN 1: Intel® I226LM, supports 2.5G and iAMT LAN 2: Intel® I226V, supports 2.5G only LAN 3&4: Intel® X550-AT2, supports 10G |
| 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 | NA |
| TPM | dTPM/fTPM |
| Others | Digital I/O (4-in/4-out), Watchdog timer |
| Dimensions (L x W) | 170mm x 170mm (6.7"x 6.7") |
| Power Consumption | TBD |
| 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) |
|-------------------|----------------------------|

Ordering Information

| | |
|------------|----------------------------------------------------------------------------------------------------------------------------------------|
| MI1001AF-R | LGA1700 MiniITX Motherboard w/ eDP, LVDS, 2x DisplayPort, 2x Dual 2.5GbE, 2x Dual 10GbE, 4x SATA, RAID, iAMT (16.1), dTPM/ fTPM (2.0)) |
|------------|----------------------------------------------------------------------------------------------------------------------------------------|



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