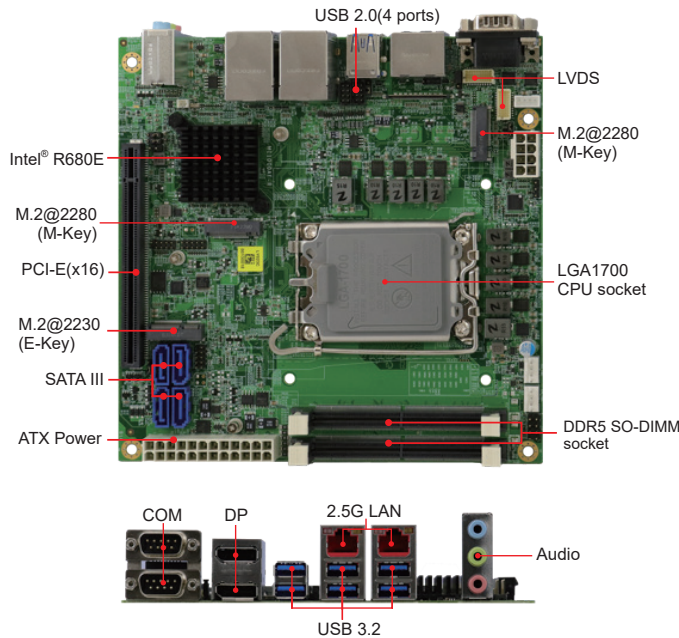


MI1000

Mini-ITX Motherboard

14th/13th/12th Gen Intel® Core™ DT Processors (RPL-S Refresh Platform)
with Intel® R680E PCH



Features

- 14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3 DT processors, up to 65W
- 2x DDR5 SO-DIMM sockets, Max. 64GB, support ECC
- Intel® processor integrated graphic supports eDP, LVDS and 2x DisplayPort (1.4a) (DP++)
- LAN 1: Intel® I226LM, supports 2.5G and iAMT
LAN 2: Intel® I226V, supports 2.5G
- 6x USB 3.2, 4x USB 2.0, 2x COM, 4x SATA III
- 1x PCI-E (x16) [Gen.5.0]; 3x M.2 (1x E-Key for WiFi/BT and 2x M-Key for NVMe)
- Supports watchdog timer, Digital I/O, iAMT (16.1), TPM (2.0)

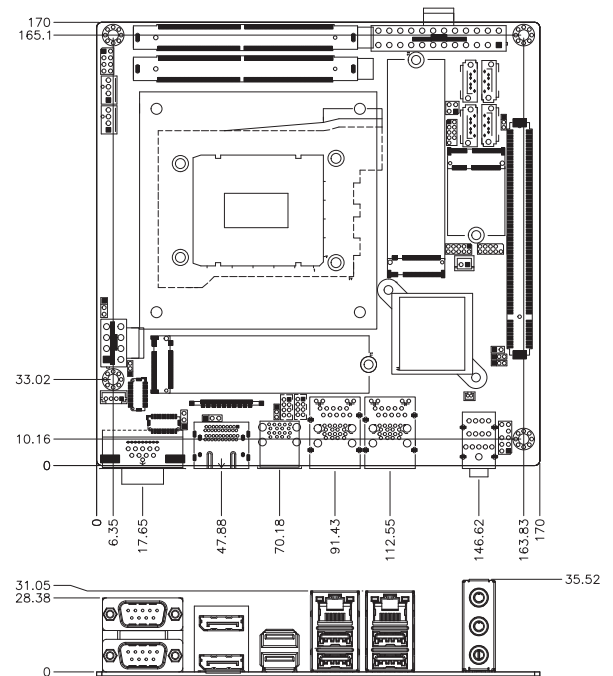
Specifications

| | |
|--------------------------|---|
| CPU Socket | LGA1700 |
| CPU | 14th/13th/12th Gen Intel® Core™ i DT processors |
| PCH | R680E |
| 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 | 2x 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 + 2 x DisplayPort (1.4a) (DP++) + LVDS |
| Ethernet | LAN 1: Intel® I226LM, supports 2.5G and iAMT LAN 2: Intel® I226V, supports 2.5G only |
| I/O Chipset | Fintek F81964D-I |
| Serial Port | 2x COM ports: 1x RS232/422/485 + 1x RS232 |
| USB 2.0 | 4x USB 2.0 via pin-headers |
| USB 3.X | 2x USB 3.2 (10Gbps)+ 4x USB 3.2 (5Gbps) @edge connector |
| Serial ATA | 4x SATA III |
| Audio | Built-in HD audio controller + Realtek ALC888S w/ 7.1 channels |
| TPM | Supports dTPM/ fTPM |
| Others | Digital I/O (4-in/4-out), Watchdog timer, PDPC |
| Dimensions (L x W) | 170mm x 170mm (6.7" x 6.7") |
| Power Consumption | 14th Gen Intel® Core™ i9-14900 w/ 2x 32GB DDR5 Transcend TS4GSA64V6E +12V:23.17A |
| 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

| | |
|--------------|---|
| MI1000AF-R | LGA1700 Mini-ITX Motherboard w /eDP, LVDS, 2x DisplayPort, 2x Dual 2.5GbE, 4x SATA, RAID, iAMT (16.1), dTPM |
| MI1000AF-R-1 | LGA1700 Mini-ITX Motherboard w /eDP, LVDS, 2x DisplayPort, 2x Dual 2.5GbE, 4x SATA, RAID, iAMT (16.1), fTPM (2.0) |

Dimensions and Drawing



Remarks: 1. Specifications are subject to change without prior notice
2. ODM/OEM is available. 3. For user manual & datasheet download, visit www.ibt.ca