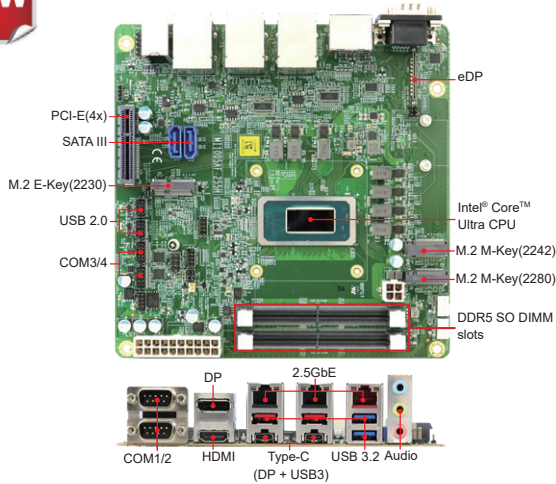




## Features

- Intel® BGA2049 Core™ Ultra 9/7/5 200 U/H series mobile onboard processors, up to 65W
- 2x DDR5 cSO-DIMM, Max. 96GB, Non-ECC
- Supports eDP(1.4b), 2x Type-C, HDMI (2.1) and DisplayPort(1.4a) (DP++)
- LAN 1: Intel® I226LM, supports 2.5G and iAMT, LAN 2 / LAN 3: Intel® I226V, supports 2.5G only
- 4x USB 3.2 (Type A), 2x USB Type-C, 4x USB 2.0, 4x COM, 2x SATA III
- 1x PCI-E (x4) [Gen.4.0]; 3x M.2 (E-Key @2230 and 2x M-Key @2280 & 2242)
- Watchdog timer, Digital I/O, iAMT(19.0) , fTPM(2.0)

## Specifications

|                          |                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------|
| CPU Socket               | BGA2049 CPU onboard                                                                                       |
| CPU                      | Intel® Core™ Ultra 9/7/5 200 U/H Mobile Processors (Arrow Lake – U/H)                                     |
| PCH                      | N/A                                                                                                       |
| Memory                   | 2x DDR5 SO-DIMM sockets, Up to <b>DDR5-6400 cSO-DIMM</b> memory module, Max. 96GB                         |
| BIOS                     | AMI                                                                                                       |
| Watchdog Timer           | 256 levels                                                                                                |
| H/W Monitor              | Yes                                                                                                       |
| Storage Device Interface | SATA III & NVMe                                                                                           |
| Expansion Slots          | 1x PCI-E (x4) [Gen 4]                                                                                     |
| Mini Type Slots          | 2x M.2 (M-Key, type:2280 + 2242, PCI-E(4x) Gen.4)<br>1x M.2 (E-Key, type:2230, USB 2.0 + PCI-E(1x) Gen.4) |
| Graphics Controller      | Intel® Core™ Ultra 9/7/5 200 U/H Mobile Processors integrated graphics                                    |
| Video Output             | 1x eDP + HDMI + 2 x DisplayPort (1.4a) (DP++) + 2x Type-C                                                 |
| Ethernet                 | LAN 1 : Intel® I226LM, Support 2.5G and iAMT<br>LAN 2 / LAN 3: Intel® I226V, support 2.5G only            |
| I/O Chipset              | Fintek F81966AB-I                                                                                         |
| Serial Port              | 4x COM ports: 2x RS232/422/485 + 2x RS232                                                                 |
| USB 2.0                  | 4x USB 2.0 via pin-header                                                                                 |
| USB 3.X                  | 4x USB3.2 Type A (10bps) + 2x USB Type-C (10 bps) @ edge connector                                        |
| Serial ATA               | 2x SATA III                                                                                               |
| Audio                    | Built-in HD Audio controller + Realtek ALC888S w/ 7.1 channels                                            |
| TPM                      | Supports fTPM                                                                                             |
| Others                   | Digital I/O (4-in/4-out) , Watchdog timer, PDPC, CPU cooler                                               |
| 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

|               |                                                                                                                                                             |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MI1005AF-285H | Intel® Core™ Ultra 9 285H CPU onboard MiniITX board w/ eDP, HDMI, 2x DisplayPort, 2x Type-C (for DP & USB 3.2), 3x 2.5GbE, 2x SATA, iAMT (19.0), fTPM (2.0) |
| MI1005AF-255H | Intel® Core™ Ultra 7 255H CPU onboard MiniITX board w/ eDP, HDMI, 2x DisplayPort, 2x Type-C (for DP & USB 3.2), 3x 2.5GbE, 2x SATA, iAMT (19.0), fTPM (2.0) |
| MI1005AF-225H | Intel® Core™ Ultra 5 225H CPU onboard MiniITX board w/ eDP, HDMI, 2x DisplayPort, 2x Type-C (for DP & USB 3.2), 3x 2.5GbE, 2x SATA, iAMT (19.0), fTPM (2.0) |

## Dimensions and Drawing

