



## Features

- 14th Gen Intel® Core™ Ultra processors (Meteor Lake-PS)
- 2x DDR5 SO-DIMM, Max. 64GB
- Supports HDMI, DisplayPort(DP++), 2x Type-C
- 1x Intel® I226LM 2.5G LAN, 2x Intel® I226V 2.5G LAN
- 4x USB 3.2, 2x USB Type-C, 4x USB 2.0, 4x COM, 2x SATA III
- 1x PCI-E (x4), 3x M.2 (M-Key + E-Key + B-Key)
- Supports 5G & watchdog timer, Digital I/O, iAMT (18.0), TPM (2.0)
- 12V~24V DC input

## Specifications

CPU Socket	LGA1851
CPU	14th Gen Intel® Core™ Ultra Processor for SoC
PCH	N/A
Memory	2x DDR5 SO-DIMM, Max. 64GB, Non-ECC
BIOS	AMI
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	M.2 SSD (M2280 for NVMe)
Expansion Slots	1x PCI-E (x4)
Mini Type Slots	1x M.2 (M-Key, Type:2280, supports NVMe) 1x M.2 (E-Key, Type:2230, supports CNVi) 1x M.2 (B-Key, Type:3052, supports 5G/LTE)
Graphics Controller	14th Gen Intel® Core™ Ultra Processor integrated Iris® Xe graphics
Video Output	HDMI, DisplayPort, 2x Type-C
Ethernet	Intel® I226LM as 1st LAN, I226V as 2nd and 3rd LAN
I/O Chipset	Fintek F81964D-I on board
Serial Port	COM1/COM2 (RS232/422/485); COM3/COM4 (RS232 only)
USB 2.0	4x USB 2.0 via pin-header
USB 3.X	6x USB 3.2 (4x Type-A+ 2x Type-C)
Serial ATA	2x SATA III
Audio	HDA controller + Realtek codec ALC888S-VD2
TPM	dTPM, fTPM is option
Others	Digital I/O (4-in/4-out); RAID, iAMT(18.0), +12V~+24V DC-in
Dimensions (L x W)	170mm x 170mm
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

MI1002AF	LGA1851 MiniITX Motherboard w/ HDMI, DisplayPort, 2x Type-C, 3x 2.5GbE, 2x SATA III, 2x COM, 3x M.2 (M2280/E2230/B3052), supports iAMT(18.0) & dTPM(2.0), DC-in (12V~24V)
MI1002AF-1	LGA1851 MiniITX Motherboard w/ HDMI, DisplayPort, 2x Type-C, 3x 2.5GbE, 2x SATA III, 2x COM, 3x M.2 (M2280/E2230/B3052), supports iAMT(18.0) & fTPM(2.0), DC-in (12V~24V)

## Dimensions and Drawing

