



## 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) 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 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

