



Features

- Intel® LGA1851 Core™ Ultra 9/7/5 200S Series Processors, up to 65W
- 4x DDR5 U-DIMM sockets, Max. 192GB
- Intel® Core™ Ultra 200S processor integrated graphic supports HDMI (2.0b) and 3x DisplayPort (1.4a) (DP++)
- LAN 1: Intel® I226LM, supports 2.5G and iAMT
- LAN 2: Intel® I226V, supports 2.5G only
- 5x USB3.2 (Gen2), 2x USB3.2 (Gen1), 2x USB2.0, 4x COM, 4x SATA III
- 1x PCI-E (x16) [Gen.5.0]; 2x PCI-E(x4) [Gen.4.0] ; 1x PCI-E(x1) [Gen.4.0]; 2x PCI
- 4x M.2, including E-Key (2230), B-Key (3052) and 2x M-Key (2280)
- Watchdog timer, Digital I/O, iAMT (19.0), TPM (2.0)

Specifications

CPU Socket	LGA1851
CPU	Intel® LGA1851 Core™ Ultra 200S Series DT Processors (Arrow Lake-S)
PCH	Q870
Memory	4x DDR5 U-DIMM sockets, Up to DDR5 -5600 memory module, Max. 192GB
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] 2x PCI-E(x4) 1x PCI-E(x1) 2x PCI
Mini Type Slots	2x M.2 (M-Key, type:2280, PCI-E(4x)) 1x M.2 (E-Key, type:2230, USB 2.0 + PCI-E(1x)) 1x M.2 (B-Key, type:3052, USB 3.2 + PCI-E(1x))
Graphics Controller	Intel® LGA1851 Core™ Ultra 200S Series DT processor integrated graphics
Video Output	1x HDMI (2.0b) + 3x DisplayPort (1.4a) (DP++)
Ethernet	LAN 1: Intel® I226LM, Support 2.5G and iAMT LAN 2: Intel® I226V, support 2.5G only
I/O Chipset	Fintek F81964D-1
Serial Port	4x COM ports: 2x RS232/422/485 + 2x RS232
USB 2.0	2x USB 2.0 via pin-headers
USB 3.X	4x USB3.2 (10G bps) @edge connector 2x USB3.2 (5G bps) @onboard box-header 1x USB3.2 (10G bps) @onboard Type-A connector
Serial ATA	4x SATA III
Audio	Built-in HD Audio controller + Realtek ALC888S w/ 5.1 channels
TPM	Support dTPM(2.0) & fTPM (optional)
Others	Digital I/O (4-in/4-out), Watchdog timer PDPC, iSMART(4.0)
Dimensions (L x W)	305mm x 244mm (12"x 9.6")

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

MBB1005AF-Q	LGA1851 Q870 ATX Motherboard w /HDMI, 3x DisplayPort, 2x 2.5GbE, 4x SATA, RAID, iAMT (19.0), dTPM (2.0), iSMART(4.0)
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Dimensions and Drawing

