



## Features

- AMD Ryzen™ Embedded 7000 Processors with B650 chipset
- Dual Channel DDR5 5200, UDIMM 4 slots, Max. up to 128GB Supports ECC
- Triple display DP/HDMI/DVI-D and Dual GbE LAN
- 1x PCI-E x16 support (Gen5) / 1x PCI-E x4 support (Gen5) / 1x PCI-E x4 support (Gen4) / 1x PCI-E x1 support (Gen3) / 1x PCI
- 2x M.2 2280 (PCI-E x2 gen 4, supports NVMe) support RAID 0, 1

## Specifications

CPU Socket	LGA1718
CPU	AMD Ryzen™ Embedded 7000 series
PCH	B650
Memory	Dual Channel DDR5 5200, UDIMM 4 slots, Max. up to 128GB Supports ECC
BIOS	AMI
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	NVMe
Expansion Slots	1x PCI-E x16 support (Gen5) / 1x PCI-E x4 support (Gen5) / 1x PCI-E x4 support (Gen4) / 1x PCI-E x1 support (Gen3) / 1x PCI
Display Interface	1x HDMI 2.1 1x DP 2.0 1x DVI-D
LAN Controller	2x Gigabit LAN / Intel I226-V
Serial Port	1x Dual DB9 stack connector for - COM #1 (RS232/422/485) (jumper-less selection) - COM #2 (RS232) 4x COM Port Header (RS232)
USB 2.0	2x USB 2.0 via pin header, 2x USB 2.0 type A vertical connector
USB 3.0	4x USB 3.2 Gen 2, + 2 x USB 3.2 Gen1 With PDPC support
Serial ATA	4x SATA 6Gb/s SUPPORT RAID 0, 1, 10 / UEFI and Windows 10 x64 Only (9.2 based driver)
Audio	1x Triplet type jack 3 x 1 for HD audio port [Line-in / Line-out / Mic-in] Realtek ALC888S for 5.1 channel.
Others	Digital I/O (4-in/4-out)
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	95% (non-condensing @60°C)

## Ordering Information

MBB1001	AMD Ryzen™ Embedded 7000 series ATX Motherboard w/ HDMI, DisplayPort, DVI-D, Dual Giga-LAN, RAID, TPM (2.0), supports ECC
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## Dimensions and Drawing

