



### Preliminary

### Features

- AMD Ryzen™ Embedded 8000 series Processors
- Radeon RDNA 3 Graphics and XDNA Neural Processing Unit
- 4x HDMI 2.1 with independent audio output support
- iSMART intelligent energy-saving & Observer remote monitoring technologies
- Built-in CEC and hardware EDID emulation functions with the software setting mode
- 2x DDR5-5600 SO-DIMM, dual channel, Max. 256GB (with ECC)
- 1x M.2 B-Key for 5G or LTE options
- 1x M.2 E-Key for Wi-Fi, Bluetooth or capture card options
- 1x M.2 M-Key for storage
- Supports TPM 2.0 and watchdog timer
- Industrial-grade robust and compact design
- Supports OOB function via I210IT LAN port (optional)
- Supports PDPC (Peripheral Device Power Control) function

### Specifications

System Mainboard	MBD344
CPU	AMD Ryzen™ Embedded 8000 Series Processors
CPU Socket	FP7r2 BGA package
Chipset	SoC Integrated
Memory	2x DDR5-5600 SO-DIMM, dual channel, Max. 256GB (with ECC)
Graphics	Radeon™ RDNA 3 Graphics
LAN	2x Gigabit LAN controller (One support OOB function)
Expansion Slots	1x M.2 E-Key (2230) 1x M.2 B-Key (3052) 1x SIM card slot
I/O Interface	4x HDMI 2.1 with hardware EDID emulation & CEC function 1x USB 3.2 @gen 2 (USB Type-A) 2x USB 2.0 (USB Type-A) 2x RJ45 for Gigabit LAN 1x RJ45 for RS-232 serial port 1x Audio connector for Line-out 1x Power button 1x Power jack (+12V DC) 2x Power/HDD LED
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC-IN
Construction	Aluminum + SGCC
Weight	TBD
Chassis Color	Black & white
Storage	1x M.2 M-Key (2280)
Power Supply	TBD
Mounting	Slim design with wall mounting holes
Dimensions	TBD
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)

Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class A, UKCA, cULus, CCC
Operating System	Win11 IoT Enterprise(64-bit) Ubuntu Linux(64-bit)