



## Features

- AMD Ryzen™ Embedded 8000 series Processors
- Radeon RDNA 3 Graphics and XDNA Neural Processing Unit
- 1x HDMI 2.1+3x HDMI 2.0b 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. 96GB (ECC compatible)
- 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

## Preliminary

## 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. 96GB (ECC compatible)                                                                                                                                                                                                                                        |
| Graphics                    | Radeon™ RDNA 3 Graphics                                                                                                                                                                                                                                                                               |
| LAN                         | 2x Gigabit LAN controller (One support OOB function)                                                                                                                                                                                                                                                  |
| Expansion Slots             | 1x M.2 E-Key (2230)<br>1x M.2 B-Key (3052)<br>1x SIM card slot                                                                                                                                                                                                                                        |
| I/O Interface               | 1x HDMI 2.1 + 3x HDMI 2.0b with hardware EDID emulation & CEC function<br>1x USB 3.2 @gen 2 (USB Type-A)<br>2x USB 2.0 (USB Type-A)<br>2x RJ45 for Gigabit LAN<br>1x RJ45 for RS-232 serial port<br>1x Audio connector for Line-out<br>1x Power button<br>1x Power jack (+12V DC)<br>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) (NVMe only)                                                                                                                                                                                                                                                                       |
| Power Supply                | 150W power adaptor                                                                                                                                                                                                                                                                                    |
| Mounting                    | Slim design with wall mounting holes                                                                                                                                                                                                                                                                  |
| Dimensions                  | 267.2mm(L) x 173mm(W) x 38.2mm(H)                                                                                                                                                                                                                                                                     |

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| 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             | 1grms/3~500Hz/ random operation                      |
| Certification         | CE, FCC Class A, UKCA, cULus                         |
| Operating System      | Win11 IoT Enterprise(64-bit)<br>Ubuntu Linux(64-bit) |