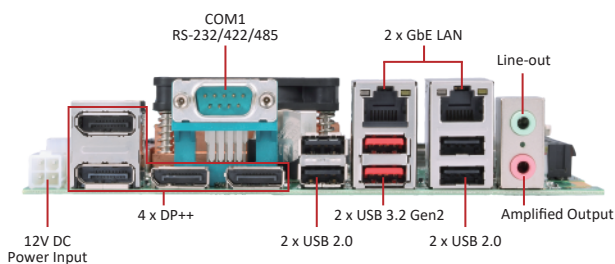


GMB143

AMD Ryzen™ Embedded R2000 SOC
Mini-ITX Board

Features

- High performance AMD platform
- GLI verified TrustedBoot
- Supports NVMe M.2 M Key storage & M.2 E Key expansion
- Lifetime long-term supply

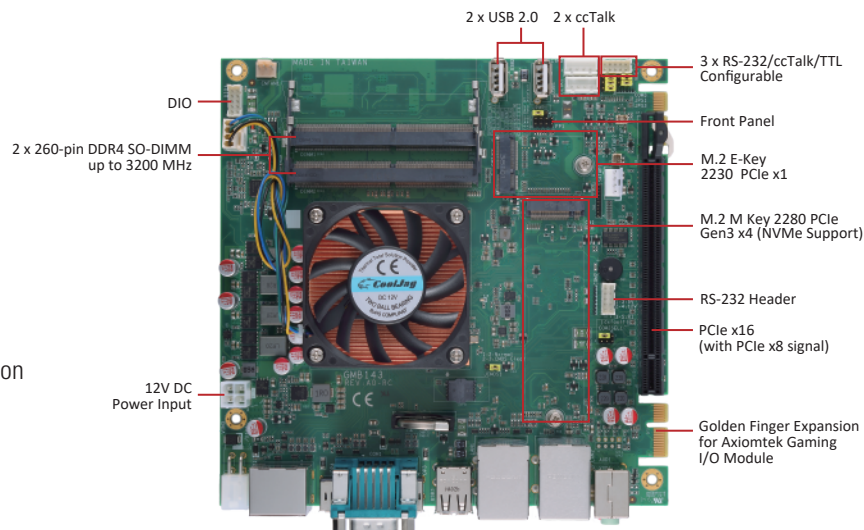


System

CPU	AMD Ryzen™ Embedded R2544, Quad Core, 8 CU, 3.35GHz (3.7GHz), 35-54W AMD Ryzen™ Embedded R2514, Quad Core, 8 CU, 2.1GHz (3.7GHz), 12-35W AMD Ryzen™ Embedded R2314, Quad Core, 6 CU, 2.1GHz (3.5GHz), 12-35W
Memory	2 x DDR4 SO-DIMM up to 3200 MHz, max. up to 32 GB
BIOS	AMI -uEFI TrustedBoot (Bios secure boot) secure hash and public key algorithm
Watchdog Timer	1 sec to 255 min
Expansion	1 x PCIe x16 (PCIe x8 signal) 1 x M.2 E key (2230, PCIe x1) 2 x PCIe golden finger expansion for Axiomtek Gaming I/O Module
Power Input	DC +12 V
Dimensions	170 mm x 170 mm
Operating Temperature	0 °C to 60 °C (32 °F to 140 °F)
Humidity	10 % to 90 %, non-condensing
Security	- TPM 2.0 engine - RSA2048 and AES256 hybrid encryption

I/O

USB	External: 2 x USB 3.2 Gen2x1 (10Gb/s) (USB Type A) 4 x USB 2.0 (USB Type A) Internal: 2 x USB 2.0 (Vertical USB Type A)
Serial Interface	External: 1 x Full RS-232 DB9 (COM1 supports RS-232/422/485) Internal: 1 x Full RS-232 box header (COM2) 1 x 3in1 Simple RS-232 box header (COM3-5) **COM3 supports TTL/ COM4-5 support ccTalk



Audio	HD audio 5.1 channels Line-out or stereo 6 W + 6 W audio amplified output
Storage	1 x M.2 M Key (2280, PCIe x4) NVMe support 3 x Power conn. for SATA expansion (2x5V & 1x12V)
Ethernet	2 x GbE LAN ports
GPIO	1 x 8-bit GPIO box header

Display

Graphic	AMD high performance Radeon™ VEGA series graphics
Interface	4 x DP++, up to 4 indepent displays with 4096 x 2160 resolution per display output

Software

OS	Windows® 11 IoT Enterprise, Linux
Others	Optional SAS 6.02 COM port driver (via Gaming I/O module)

Ordering Information

GMB143-R2544	Mini-ITX board supports AMD Ryzen™ Embedded R2544 with VEGA graphics, 4 x DP++, 5 x COM, 8 x USB, 2 x GbE, Audio, M.2, DC 12V input
GMB143-R2514	Mini-ITX board supports AMD Ryzen™ Embedded R2514 with VEGA graphics, 4 x DP++, 5 x COM, 8 x USB, 2 x GbE, Audio, M.2, DC 12V input
GMB143-R2314	Mini-ITX board supports AMD Ryzen™ Embedded R2314 with VEGA graphics, 4 x DP++, 5 x COM, 8 x USB, 2 x GbE, Audio, M.2, DC 12V input

* All specifications and photos are subject to change without notice.

For more information please contact: gaming@axiomtek.com.tw No. 1140-0001701