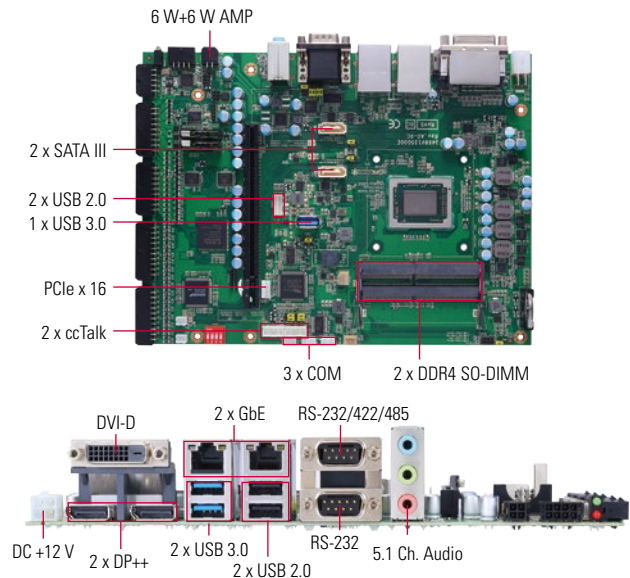


GMB135

AMD Embedded R-Series SoC
All-In-One Gaming Board

Features

- High performance AMD platform
- GLI verified TrustedBoot and TrustedData
- Supports 9-bit serial port for SAS 6.02
- Lifetime long-term supply



System

CPU	AMD Embedded R-Series SoC, formerly codenamed "Merlin Falcon"
Memory	2 x DDR4 SO-DIMM up to 2133 MHz, max. up to 32 GB
BIOS	AMI -uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog timer	1 sec to 255 min
Expansion	PCIe x16 slot (x8 Gen3 signal)
Power Input	DC +12 V
Dimensions	170 mm x 227 mm
Operating Temperature	0 °C to 60 °C (32 °F to 140 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption

I/O

USB	3 x USB 3.0 4 x USB 2.0
Serial Interface	2 x RS-232 DB9 (1 x RS-422/485 configurable) 3 x RS-232 (1 x ID003, 2 x ccTalk configurable) 2 x RS-232 (hardware 9-bit supported)
Audio	HD audio 5.1 channels Line-out or stereo 6 W + 6 W audio amplified output
Storage	2 x SATA III, SATADOM supported
Ethernet	2 x GbE

Display

Graphic	AMD Radeon™ HD10000 Series DirectX® 12, OpenGL® 4.2, and OpenCL™ 1.2
Interface	2 x DP++ 1 x DVI-D

Gaming Function

Intrusion Detection	8 x intrusion detection (2 x internal, 6 x external) Operates with and without AC Power Logs date/time of last 200 events
Digital Input	32 x protected input 4 x DIP switch
Digital Output	29 x 500 mA/30 V OC output (8 x meter configurable) 3 x 3 A/30 V OC output
NVRAM	4 MB (2 or 8 MB optional) TrustedData, hardware bank mirroring and CRC
Software Support	Library, demo program, sample code provided

Software

OS	Windows® 7, 10 Linux kernel 3.x and above version
Gaming API	Windows/Linux sample code and demo program provided
Others	SAS 6.02 COM port driver provided

Ordering Information

GMB135-421	AMD Embedded R-Series SoC Gaming Board with RX-421 quad-core APU, 2 x DP, DVI-D, 4 MB NVRAM
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