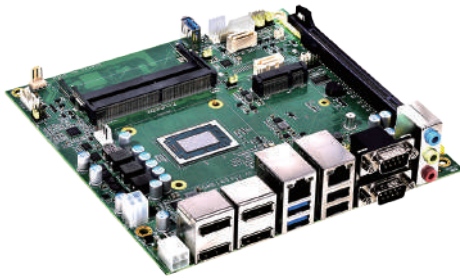
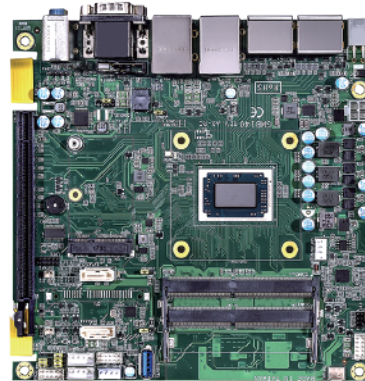


GMB140

AMD Ryzen™ Embedded V1000 / R1000 SoC
Mini-ITX Board

Features

- High performance AMD platform
- GLI verified TrustedBoot
- Extension PCIe I/F for gaming I/O module
- Optional support 9-bit serial port for SAS 6.02
- Lifetime long-term supply



System

APU	AMD Ryzen™ Embedded V1000/R1000 SoC "Zen" CPU
Memory	2 x DDR4 SO-DIMM up to 3200 MHz, max. up to 64 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 (supports PCIe x8 signal only), 1x Mini-PCIe
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	7 x USB Ports
Serial Interface	2 x RS-232 DB9 (1 x RS-422/485 configurable) 4 x RS-232 (1 x ID003, 2 x ccTalk configurable)
Audio	- HD audio 5.1 channels Line-out and stereo 6 W+6 W audio amplified output - S/PDIF
Storage	2 x SATA III port
Ethernet	2 x GbE LAN port
GPIO	8-bit GPIO

Display

Graphic	AMD high performance Radeon™ VEGA graphics
Interface	V1000 series : 4 x DP++ R1000 series : 3 x DP++



Software

OS	Windows® 10 IoT Enterprise, Linux
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Ordering Information

GMB140-V1807-H (E38V140114)	AMD Ryzen™ Embedded V1807 w/ VEGA 11 graphics 4 x DP++, 6 x COM, 7x USB, 2 x GLAN, Audio PCIe x8 and Mini-PCIe, DC 12 V input
GMB140-V1605-H (E38V140116)	AMD Ryzen™ Embedded V1605 w/ VEGA 8 graphics 4 x DP++, 6 x COM, 7 x USB, 2 x GLAN, Audio, PCIe x8 and Mini-PCIe, DC 12V input
GMB140-R1606-H (E38V140120)	AMD Ryzen™ Embedded R1606 w/ VEGA 3 graphics 3 x DP++, 6 x COM, 7 x USB, 2 x GLAN, Audio, PCIe x8 and Mini-PCIe, DC 12V input
GMB140-R1505-H (E38V140121)	AMD Ryzen™ Embedded R1505 w/ VEGA 3 graphics 3 x DP++, 6 x COM, 7 x USB, 2 x GLAN, Audio, PCIe x8 and Mini-PCIe, DC 12V input

Optional Accessories

59403208000E	SATA cable 180D to 180D with lock L:20cm-UL
590000001800	SATA+power cable 7+15P F 180° female 180° and housing pitch 2.54mm 1x 4P, L=45cm
594Q6002110E	COM Port cable DB9 Male x4 L=30CM
594Q3002800E	USB2.0 cable HS2 x 5P P2.0/USB x 2 stack AF 20cm

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

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