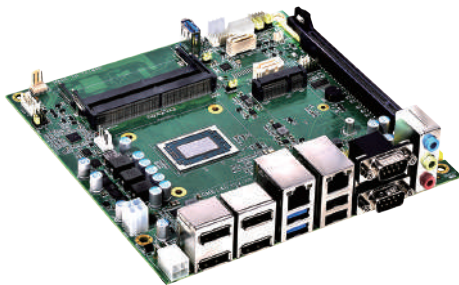
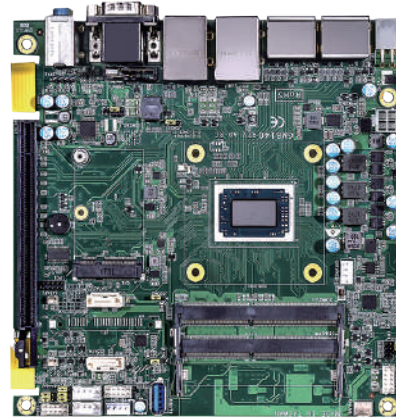


# GMB140

AMD Ryzen™ Embedded V1000 APU  
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 SoCs "Zen" CPU
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 (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	3 x USB 3.0 (1 x internal) 4 x USB 2.0 ( 2 x internal)
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 output
Storage	2 x SATA III port or 1 x SATA III + 1 x CFast socket
Ethernet	2 x GbE LAN port
GPIO	8-bit GPIO

### Display

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

### Software

OS	Windows® 10 IoT Enterprise, Linux
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### Ordering Information

GMB140-1807	Mini-ITX Board with AMD Ryzen™ Embedded V1807 4 x DP++, 6 x COM, 7x USB, 2 x GLAN, Audio PCIe x16 and Mini-PCIe, DC 12V input
GMB140-1756	Mini-ITX Board with AMD Ryzen™ Embedded V1756 4 x DP++, 6 x COM, 7 x USB, 2 x GLAN, Audio, PCIe x16 and Mini-PCIe, DC 12V input
GMB140-1605	Mini-ITX Board with AMD Ryzen™ Embedded V1605 4 x DP++, 6 x COM, 7 x USB, 2 x GLAN, Audio, PCIe x16 and Mini-PCIe, DC 12V input
GMB140-1202	Mini-ITX Board with AMD Ryzen™ Embedded V1202 4 x DP++, 6 x COM, 7 x USB, 2 x GLAN, Audio, PCIe x16 and Mini-PCIe, DC 12V input



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

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