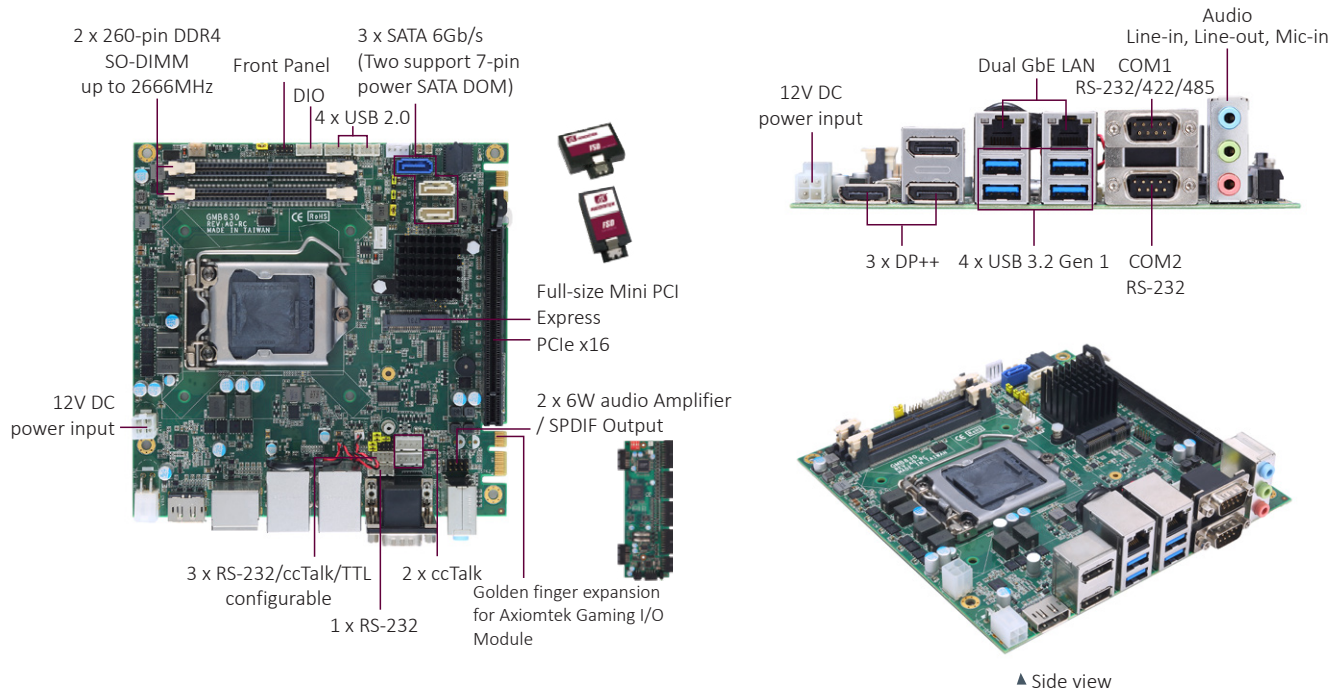


GMB830

8th/9th Gen Intel® Core™ Mini-ITX Gaming Board



Features

- High performance Intel® platform
- GLI verified TrustedBoot
- PCIe golden finger expansion for Gaming I/O Module
- Optional 9-bit serial port for SAS 6.02
- Lifetime long-term supply

Specifications

CPU	LGA1151 socket supports 8th/9th gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron® processor
System Memory	2 x 260-pin DDR4 SO-DIMM up to 2400/2666MHz, system max. up to 64GB
Chipset	Intel® Q370/H310
BIOS	AMI-uEFI BIOS Optional security boot function
Watchdog Timer	1 sec. to 255 min.
Expansion Interface	1 x PCIe x16 (Gen 3) 1 x full-size Mini PCI Express (PCIe x1 & USB 2.0 signal) 2 x PCIe golden finger expansion for Axiomtek Gaming I/O Module
Power Input	DC +12V Input, ± 5%
Dimensions	170 x 170 mm
Operating Temperature	0°C to +60°C (32°F to +140°F)
Storage Temperature	-40°C to 85°C
Relative Humidity	10 % to 90 %, non-condensing
Security	Onboard TPM 2.0 Axiomtek TrustedBoot for BIOS security boot

Specifications

Display

Chipset	Intel® HD Graphics Gen 9 Engines with low power 16 execution unit, supports DX11.3/12, OpenGL 4.3/4.4/4.5 and OpenCL 1.2/2.0/2.1
Display Interface	3 x DP++ port (up to 4096 x 2160 @ 60Hz) H310 supports dual displays

I/O

USB	External: 4 x USB 3.2 Gen 1 x1 (5Gb/s) Internal: 4 x USB 2.0 pin header
Serial Interface	External: 2 x full RS-232 DB9 (COM1 supports RS-232/422/485) Internal: 1 x full RS-232 box header 3 x Simple RS-232 box header (Two support ccTalk/ One supports TTL)
Audio	External: HD audio Line-in/ Line-out/ Mic-in phone jack (7.1 Ch.) Internal: Stereo 6W + 6W audio amplifier outputs pin header SPDIF output pin header
Storage	3 x SATA 6Gb/s (Two support 7-pin power SATA DOM)
Ethernet	2 x GbE LAN ports
Fan Connector	1 x CPU fan connector (1 x 4-pin) 1 x system fan connector (1 x 3-pin)

Software

OS	Windows® 10 Enterprise, IoT Enterprise, and 64-bit
Others	SAS 6.02 COM port driver provided (via Gaming I/O module)

Ordering Information

GMB830-Q370 (P/N: E38V830105)	8th/9th Gen Intel® Core™ Mini-ITX board with Q370 PCH, 3 x DP++, 2 x GbE, 6 x COM, 8 x USB, 12V DC-in
GMB830-H310 (P/N: E38V830104)	8th/9th Gen Intel® Core™ Mini-ITX board with H310 PCH, 3 x DP++, 2 x GbE, 6 x COM, 8 x USB, 12V DC-in

Optional Accessories

5078V820000E	LGA1151/1200 cooler kit, 2U chassis compatible, 65W
E9C900C000	LGA1151/1200 cooler kit, 1U chassis compatible, 35W
59403208000E	SATA cable 180D to 180D with lock L:20cm-UL
590000001800	SATA+power cable 7+15P F 180° female 180° and housing pitch 2.54 mm 1 x 4P, L=45cm
594Q8302100E	COMPort cable, DB9 male x 3, PHD4 x 2P, L=30cm
594Q8302110E	COMPort cable, DB9 male, PHD5 x 2P, L=30cm
594Q8302110E	USB 2.0 cable HS 2 x 5P P2.0/USB x 2 stack AF 20cm