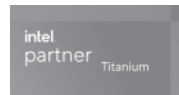
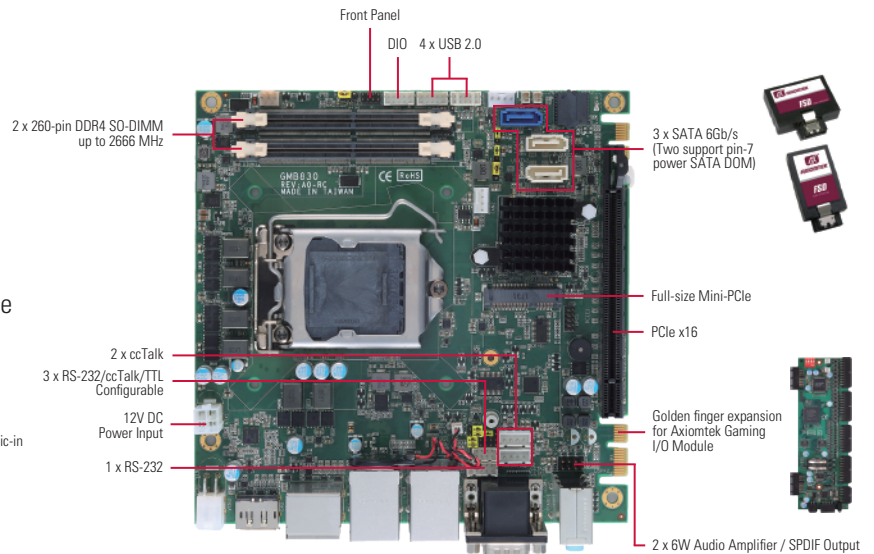
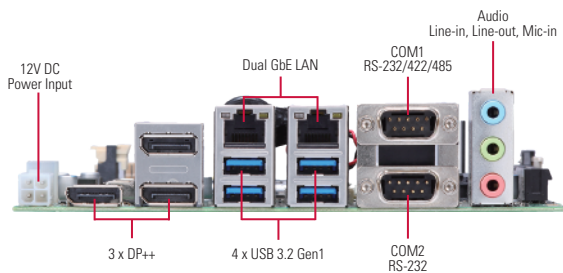


# GMB830

8th/9th Generation 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



## System

CPU	LGA1151 socket supports 8th/9th generation Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron® processor
Memory	2 x 260-pin DDR4 SO-DIMM up to 2400/2666 MHz, System max. up to 64GB
Chipset	Intel® Q370 / H310 Chipset
BIOS	AMI -uEFI BIOS Optional security boot function
Watchdog Timer	1 sec to 255 min
Expansion	1 x PCIe x16 (Gen3) 1 x Full-size Mini-PCIe (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 mm x 170 mm
Operating Temperature	0 °C to 60 °C (32 °F to 140 °F)
Storage Temperature	-40 °C to 85 °C
Humidity	10 % to 90 %, non-condensing
Security	Onboard TPM 2.0 Axiomtek TrustedBoot for BIOS security boot

## I/O

USB	External: 4 x USB 3.2 Gen1x1 (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 pin-7 power SATA DOM)
Ethernet	2 x GbE LAN ports

Fan Connector	1 x CPU fan connector (1x4 pin) 1 x System fan connector (1x3 pin)
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## Display

Graphic	Intel® HD Graphics Gen9 Engines with Low power 16 execution unit, supports DX11.3/12, OpenGL 4.3/4.4/4.5 and OpenCL1.2/2.0/2.1
Interface	3 x DP++ port (up to 4096 x 2160 @60Hz) H310 supports dual displays

## Software

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

## Ordering Information

GMB830-Q370 (P/N: E38V830105)	8th/9th Generation 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 Generation 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 2.54mm 1x 4P, L=45cm
59408302100E	COMPort cable, DB9 male x 3, PHD4 x 2P, L=30cm
59408302110E	COMPort cable, DB9 male, PHD5 x 2P, L=30cm
59403002800E	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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