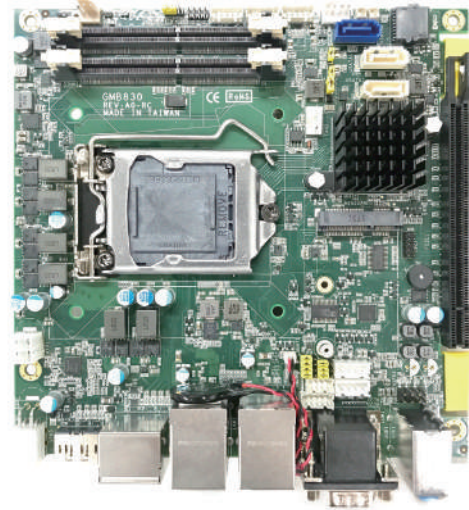


# GMB830

8th Generation Intel® Core™  
Mini-ITX Gaming Board

## Features

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



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## System

CPU	8th Generation Intel® Core™ i7/i5/i3 Intel® Pentium® processors Gold/ Celeron, LGA1151
Memory	2 x DDR4 SO-DIMM up to 2400/2666 MHz, Max up to 32 GB
Chipset	Intel® H310 / Q370 Chipset
BIOS	AMI -uEFI BIOS Optional security boot function
Watchdog Timer	1 sec to 255 min
Expansion	1 x PCIe X16 slot 1 x Full-size Mini-PCIe socket (PCIe X1 & USB signal) 2 x PCIe golden finger 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	4 x USB 3.0 for external connector 4 x USB 2.0 for internal pin header
Serial Interface	2 x Full RS-232 DB9 (COM1 supports RS-232/422/485) 1 x Full RS-232 for internal box header 3 x Simple RS-232 for internal pin header (Two of them support ccTalk)
Audio	External line-in/Line-Out/Mic-In phone jack (5.1 Ch) Internal stereo 6W + 6W audio amplified outputs Internal SPDIF pin header
Storage	3 x SATAIII ports Two of them support pin-7 power SATA DOM
Ethernet	2 x GbE LAN ports

## Display

Graphic	Intel® UHD Graphics 610/630
Interface	Q370 supports 3 x DP++ port H310 supports 2 x DP++ port With 4096 x 2160 resolution per display output

## Software

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

## Ordering Information

GMB830-310	8th Generation Intel® Core™ Mini-ITX board with H310 PCH, 3 x DP++, 2 x GLAN, 6 x COM, 8 x USB, 12V DC-in
GMB830-370	8th Generation Intel® Core™ Mini-ITX board with Q370 PCH, 3 x DP++, 2 x GLAN, 6 x COM, 8 x USB, 12V DC-in



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

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