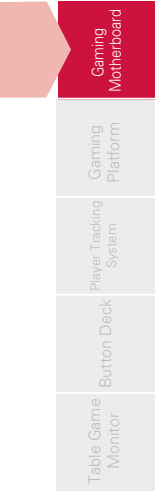
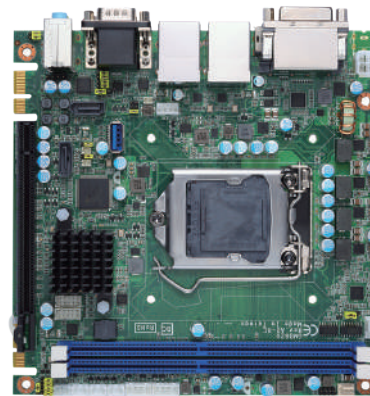
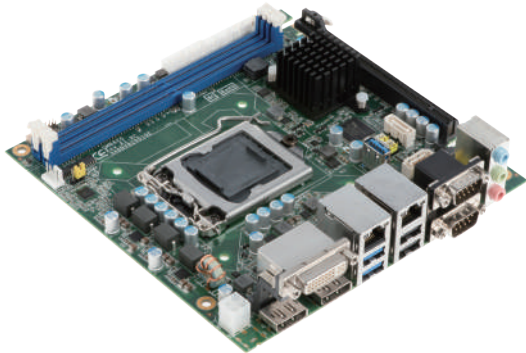


# GMB820

6/7th Generation Intel® Core™  
Mini-ITX 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



## System

CPU	6/7th Generation Intel® Core™ i7/i5/i3, Intel® Pentium® processors and Intel® Celeron® processors
Memory	2 x DDR4 U-DIMM up to 2133 MHz, max. up to 32 GB
Chipset	Intel® H110 PCH
BIOS	AMI -uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog timer	1 sec to 255 min
Expansion	PCIe x16 slot
Power Input	DC +12V
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	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption

## I/O

USB	3 x USB 3.0 6 x USB 2.0
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 or stereo 6W + 6W audio amplified output
Storage	2 x SATA III, SATA DOM supported
Ethernet	2 x GbE LAN port



## Display

Graphic	6th Generation Intel® HD Graphics 510/530 7th Generation Intel® HD Graphics 610/630 DirectX® 12, OpenGL® 4.4, and OpenCL™ 2.0
Interface	Support dual display, optional inputs are as below: - 2 x DP++ - 1 x DVI-D

## Software

OS	Windows® 7, 10 Linux kernel 3.x and above version
Others	SAS 6.02 COM port driver provided (via Gaming I/O module)

## Ordering Information

GMB820-110	6/7th Generation Intel® Core™ Mini-ITX board with H110 PCH, 2 x DP++, DVI-D, 9 x USB
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\* All specifications and photos are subject to change without notice.

For more information please contact: [gaming@axiomtek.com.tw](mailto:gaming@axiomtek.com.tw) No. 1820-0001801