

MB-GB860MGX+W

Gigabyte B860M GAMING X WIFI6E B860 Express Chipset LGA 1851 Micro ATX Motherboard with WiFi

Product Overview

Gigabyte B860M GAMING X WIFI6E B860 Express Chipset LGA 1851 Micro ATX Motherboard, Support for DDR5 9200(O.C)/ 8800(O.C)/ 8600(O.C)/ 8400(O.C)/ 8266(O.C)/ 8200(O.C)/ 8000(O.C)/ 7950(O.C)/ 7900(O.C)/ 7800(O.C)/ 7600(O.C.)/ 7400(O.C.)/ 7200(O.C.)/ 7000(O.C.)/ 6800(O.C.)/ 6600(O.C.)/ 6400/ 5600 MT/s memory modules, 4 x DDR5 DIMM sockets supporting up to 256 GB (64 GB single DIMM capacity) of system memory, 1 x 24-pin ATX main power connector, 1 x 8-pin ATX 12V power connectors, 1 x CPU fan header, 1 x CPU fan/water cooling pump header, 1 x system fan header, 1 x system fan/water cooling pump header, 3 x addressable RGB Gen2 LED strip headers, 1 x RGB LED strip header, 2 x M.2 Socket 3 connectors, 4 x SATA 6Gb/s connectors, 1 x front panel header, 1 x front panel audio header, 1 x USB Type-C® header, with USB 3.2 Gen 2 support, 1 x USB 3.2 Gen 1 header, 2 x USB 2.0/1.1 headers, 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0/GC-TPM2.0 SPI V2 module only), 2 x Thunderbolt™ add-in card connectors (For GIGABYTE Thunderbolt™ 5 add-in card only), 1 x Q-Flash Plus button, 1 x reset jumper, 1 x Clear CMOS jumper, 1 x HDMI port, 1 x DisplayPort, 1 x USB4® USB Type-C® port, 3 x USB 3.2 Gen 1 ports, 5 x USB 2.0/1.1 ports, 2 x antenna connectors (2T2R), 1 x RJ-45 port, 3 x audio jacks, Micro ATX Form Factor, 24.4cm x 24.4cm



Specifications

Features:

- Supports Intel® Core™ Ultra processors (Series 2)
- Hybrid Digital 8+1+2 phases VRM solution
- D5 Bionic Corsa for Infinite Memory Performance
- AI Perfdribe : Provides optimal and customized BIOS preset profile for users
- WIFI EZ-Plug : Quick and easy design for Wi-Fi antenna installation
- EZ-Latch Plus : PCIe and M.2 slots with Quick Release & Screwless Design
- EZ-Latch Click : M.2 heatsinks with screwless design
- Friendly UI : Multi-Theme, AIO Fan Control, and Q-Flash Auto Scan in BIOS and SW
- New Power Monitor in HWinfo for real-time monitoring on CPU power phases
- Ultra-Fast Storage : 2*M.2 slots, including 1* PCIe 5.0 x4
- Efficient Thermal : VRM Thermal Armor Advanced & M.2 Thermal Guard
- Fast Networking : 2.5GbE LAN & Wi-Fi 6E 802.11ax
- Extended Connectivity : USB4 Type-C with DP-Alt, HDMI, DisplayPort

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Infinite Memory Performance

Gaming motherboards boost DDR5 memory performance and offer top-notch compatibility using various advanced methods.

Effortlessly Boost Your DDR5 Memory Speed

DDR5 XMP Booster feature offers ready-to-use settings derived from analysis of memory IC and PMIC vendor. This allows users to maximize DDR5 memory performance without the hassle of manual tweaking for overclocked DDR5 memory kits.

Boost instantly

Instant memory performance uplift

Hands-off memory tuning

Eliminate manual entry of complex memory settings such as clock, voltage, and timings.

Hassle-free overclocking

Seamlessly overclock for both standard and XMP 3.0 DDR5 memory frequencies.

Incorporated database

Built-in library of pre-optimized configurations for diverse memory chip suppliers

Boost DDR5 Memory Performance with Optimized Tuning

Leverage XMP 3.0 User Profile to fine-tune memory settings for peak system performance.

Customizable SPD Profiles or retrieve from database

Create and transfer two custom SPD profiles between systems.

Quick Performance Simulator

Rapidly assess potential memory performance by entering clock speeds and timing parameters.

Profile Management

Store and retrieve memory configurations for online sharing.

Unlock non-overclockable DDR5 Potential

Enhance clock speeds of non-overclockable DDR5 modules.

Instant Reset

Revert memory settings with a single click.

AORUS AI Snatch

Auto-Overclocking Software by AI model

Auto-Overclocking Software by AI model

Unleash Ultimate Performance with One-Click Activation.

Auto CPU & DDR5 Memory Boost

With just a single click, unleash the full potential of CPU & DDR5 memory, instantly boosting your gaming and work efficiency.

One-Click Acceleration

Enhance CPU & DDR5 speeds with a single click.

- Real time Analyze
- OC accuracy UP
- EZ to Pro

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Fast AI Performance

Accelerate AI processing for greater performance

Up to 11% AI Performance*

- Accelerated AI decision-making
- Boosted reinforcement learning
- Streamlined language processing

Boost CPU & Memory Performance

Raise system speed and performance.

Up to 7% Memory Performance Boost, Up to 5% CPU Performance Boost**

- Tailored-overclocking for your CPU and memory
- Faster data transfer and application loading
- Improved multitasking performance
- Optimized overall system performance

Maximize performance in a snap

Enable users to easily become overclocking experts through a simple interface.

Smart & Safe overclocking

Protect your motherboard through multiple over-temperature and over-current safeguards.

- Over Temperature Protection
- Over Current Protection
- Over Voltage Protection
- Over Power Protection
- Under Voltage Protection
- Short Circuit Protection

Less Power Usage Optimal power-efficiency, Enhance Up to 3% CP/Per Watt*

With faster computations, it also means reduced power consumption, making it more environmentally friendly and energy-efficient, continuously contributing to the well-being of our planet.

AI SNATCH Engine

Advanced AI Overclocking Model

AI SNATCH Engine

The AI model, trained by AI TOP on diverse overclocking datasets, improves precision and stability while optimizing performance. This model serves as the core of AORUS AI Snatch software.

- OC to 20% higher speed
- OC Efficiency UP
- No more try and error
- Optimal performance-stability balance.

AI Flow Chart

- Data Augmentation
- Expands dataset size
- Reduces overfitting risk
- Simulate more realistic conditions

Precise Dataset

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- AI-Driven Overclocking Analysis
- List overclocking parameters
- Generate OC attribute weights and relevance matrix
- Create correlation heatmap
- Identified critical attributes

AI-Driven PCB Design

Redefining PCB Design with AI

AI-Driven PCB Technology-Redefining PCB Design with Artificial Intelligence

AI-Driven PCB Technology employs AI algorithms to optimize vias, routing and stackups. It ensures peak performance and signal integrity across single and cross-layer throughout the design process.

AI-ViaFusion Technology

Optimized vias & pads for signal integrity

AI-Trace Technology

Smart routing for peak performance

AI-Layer Technology

Tailored stackups for enhanced functionality

Key Features

- AI-Generated Design Recipes
- AI-Driven Simulation
- AI-Powered Signal Verification
- Single and cross-layer signal optimization

AI-ViaFusion™ Technology - AI-Powered Excellence in Signal Integrity

Reduction in Signal Reflection Up to 28.2%. AI-ViaFusion, an AI-assisted via optimization technology, determines optimal via and pad sizes across PCB areas. This technology enhances cross-layer signal integrity and transmission efficiency, outperforming traditional design methods.

Best-in-class Signal Quality

- Superior signal transmission efficiency
- Dramatically reduced signal reflection
- Elevated signal quality and reliability
- Enhanced cross-layer PCB signal performance

AI-ViaFusion Technology - AI-Engineered Via Design Formula

AI-ViaFusion is a proprietary AI-generated hybrid via structure design. This PCB technology, validated through AI simulations and testing, aims to enhance high-speed signal transmission.

Optimized Via Design

Varied via sizes for optimized signal and power paths

Driven Pad Optimization

Custom pad sizes for performance and production balance

Precision Impedance Matching

Via & pad sizes selected for optimal signal impedance

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Minimized Insertion Loss

Optimized vias reduce signal loss

Enhanced Return Loss

Precision impedance matching reduces reflections

Optimized Eye Diagram

Wider eye opening improves signal integrity

AI-ViaFusion Technology - AI-Driven Revolution in PCB Design

Vias (Vertical Interconnect Access) are critical for multi-layer PCB connectivity. Via size significantly impacts signal integrity, affecting capacitance, reflections, and crosstalk.

Strategic Via Sizing

Optimized for varied signals across PCB

Enhanced Impedance Matching

Precise control via machine learning

Space Optimization

Maximized layout efficiency with signal integrity

AI-Trace Technology-Revolutionizing PCB Routing with AI

AI-Trace Technology transforms PCB design by leveraging AI to optimize trace routing, resulting in enhanced performance and signal integrity.

Fiber Weave Effect Mitigation

Optimized signal synchronization

Shielded Memory Routing

Optimized signal shielding and precision

Impedance-Optimized Topology

Refined traces with minimal resistance

Isolated Memory Routing

Optimized trace layout and layer separation

Daisy-Chained Routing

Innovative design eliminates signal bottlenecks

Mitigating Fiber Weave Effect with AI-Trace Technology

Fiber Weave Effect in high-speed PCBs stems from varying dielectric constants of epoxy resin and glass fibers, this causes varying signal propagation speeds, leading to signal integrity issues such as crosstalk and jitter. AI-Trace Technology implements innovative routing angles to mitigate this effect.

Benefits of Mitigation:

- Reduces signal distortion
- Improves transmission reliability
- Supports higher data rates
- Enhances overall system stability

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AI-Layer Technology -Next-Generation Multi-Layer PCB Design

AI-Layer Technology creates innovative layer materials for multi-layer PCBs, delivering unparalleled performance.

Core Innovation

- AI-Optimized Layer Customized Design
- AI-optimized layer design
- Unique material for each layer
- AI-verified signal integrity
- Tailored PCB for peak performance

Key Features

- AI-optimized PCB layer and design material
- Server-Grade Low Loss PCB*
- Enhanced 2X Copper Technology

HyperTune BIOS

AI-Driven Advanced BIOS Optimization Technology

HyperTune BIOS - AI-Driven Advanced BIOS Optimization Technology

- BIOS Efficiency Boost Up to 95%+
- HyperTune BIOS uses AI to optimize MRC and adapt to signals. 800 series implements this for peak efficiency, enabling significant memory clock speed boosts and enhanced overall performance.

AI-Enhanced Performance Optimization

- AI-driven MRC parameter optimization
- Adaptive signal strength tuning
- AI tuning accuracy exceeds 95%
- Continuous learning advances performance limits

HyperTune BIOS - Advanced MRC Optimization

Memory Reference Code (MRC) is a critical component in BIOS that initializes and configures system memory. HyperTune BIOS leverages AI to optimize MRC, pushing memory performance to new heights while maintaining system stability.

Benefits of HyperTune BIOS MRC Optimization

- Boosted memory clock speeds
- Faster system response
- Improved stability under load
- Auto-adapts to memory modules

Steady Power

Better Play GAMING Series, steady power keeps your gaming smooth.

Hybrid Digital VRM Design

Delivers consistent, high-powered performance to elevate your overclocking to the next level.

8 VCORE Phases DrMOS 60A

Unlock the full power of your multi-core CPU for unmatched performance.

1 VCCGT Phase DrMOS 40A

Optimized for integrated GPU performance and memory management within the CPU.

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2 VCCSA Phases DrMOS 60A

Deliver reliable power to your CPU-connected PCIe lanes for uninterrupted performance.

Comprehensive Thermal

GAMING motherboards come with advanced full-metal thermal design and durable heatsinks to keep your system cool and efficient.

"Stay Cool, Game On"

High-coverage MOSFETs with integrated molded heatsinks

4X larger surface area for enhanced heat dissipation

With up to 4 times the surface area of traditional coolers, this advanced design significantly boosts MOSFET cooling performance.

Multi-cut design with channels for improved airflow

- More grooves, more airflow.
- Better airflow, cooler system.

True one-piece heatsink design

- Outperforms competitors' multi-piece solutions
- Integrated design and expanded surface area deliver exceptional cooling performance

M.2 Thermal Guard

The M.2 Thermal Guard prevents throttling and bottlenecks from high speed M.2 SSDs as it helps to dissipate heat before it becomes an issue.

RL-ILM design

The RL-ILM (Reduced Load-independent loading mechanisms) significantly improves thermal performance up to 4 degreesC and avoids possible bending of the CPU IHS (integrated heat spreader), allowing overclockers and enthusiasts to push their CPUs beyond the limit without any worries.

Smart Fan 6

Superior cooling performance and whisper-quiet operation for your gaming rig.

High Current Support

- Supports both PWM and DC fans, plus water cooling pumps
- Up to 24W (12V x 2A) capacity per fan header
- Built-in over-current protection

Precision Control

- Multiple temperature and fan speed points
- Customizable fan curves for optimal performance

Dual Curve Mode

- Choose between slope and stair modes
- Tailor cooling to your specific needs and preferences

Fan Stop Technology

- Fans can be completely turned off at low temperatures
- Ensures silent operation during light loads

Enhance Fan Curve UI

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- 7 adjustable control points
- Expanded speed graph for precise adjustments

Slope/Stair Dual Graph Mode

- Slope mode: Smooth fan speed curve
- Stair mode: Steady speeds within temperature ranges
- Easy switching between modes

Manual Input

- Fine-tune fan speeds for optimal performance
- Precise control for enthusiasts

EZ Tuning

- Quick setup with 4 temperature and fan speed points
- Automatic optimization of fan curve

Fan Curve Profile

- Save personalized settings to BIOS ROM
- Maintain custom settings through BIOS updates

Hassle-free Assembly

Our cutting-edge motherboard is designed for the ultimate DIY experience. Creating your own PC becomes a delightful and smooth process.

WIFI EZ-Plug

The WIFI EZ-Plug design integrates Wi-Fi antenna plugs into one adapter, EZ to install.

EZ-Latch Designs

User-friendly designs simplifying the assembly process.

M.2 EZ-Latch Click

screwless installation for M.2 heatsink

M.2 EZ-Latch Plus

screwless installation for M.2 SSDs

PCIe EZ-Latch Plus

Easy ejection with single click for graphics cards

EZ Debug Zone

Centralized debug LEDs and control buttons provide a handy and organized troubleshooting process when building a new computer.

Multi-key

A flexible control key for reset with BIOS-level reconfiguration options for diverse usage scenarios.

RGB Switch

Disable all light displays on the motherboard.

Direct-To-BIOS

Access the BIOS settings directly without keyboard inputs.

Safe Mode

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Access BIOS safe mode to modify select settings while preserving other configurations.

Optimal DRAM Installation Indicator

The DRAM Indicator LED will turn on when a module is installed into a non-recommended slot.

Q-FLASH Auto Scan

The new Auto Scan function features when using USB flashdrive during Q-Flash, the BIOS file will be auto scanned instead of searching manually.

Q-FLASH PLUS

Effortlessly upgrade your BIOS without the need to install CPU, RAM, or GPU.

Future Connectivity

Experience ultimate connectivity with next-generation network, storage, and Wi-Fi solutions, delivering lightning-fast data transfer speeds.

40Gbps USB4 with DP-Alt

The latest USB4 Type-C port provides blistering fast and reliable transfer speed up to 40 Gbps. Featuring extensive comparability, efficient charging, and ultra-HD displayport connectivity, USB4 is beneficial to video editing, large file transfers, and data-intensive tasks.

802.11ax Wi-Fi 6E

The latest Wireless solution 802.11ax Wi-Fi 6E with new dedicated 6GHz band, enables gigabit wireless performance, provides smooth video streaming, better gaming experience, few dropped connections and speeds up to 2.4Gbps. Moreover, Bluetooth 5 provides 4X range over BT 4.2 and with faster transmission.

Benefit of Wi-Fi 6E

- Dedicated spectrum in 6GHz band for less interference
- 4X better network capacity, no traffic jams especially in those dense area with lots of devices
- Network efficiency increase for better user experience

Wi-Fi 6E bring you the Ultimate VR experience!

Wi-Fi 6E brings faster Wi-Fi speeds, lower latency, and better battery life for VR devices, which means streaming VR games wirelessly from your PC to your VR device offers a lot smoother and has higher quality video.

Wi-Fi 6E compared to Wi-Fi 5 provide...

- 40% faster speed for smoother gaming/streaming experience
- 50% higher resolution for video game related content
- Better battery life for VR devices

Wi-Fi 6E Advantage

Spectrum congestion is huge problem in current Wi-Fi environment nowadays because too many devices all use existing 2.4GHz and 5GHz spectrum, and it cause unreliable connection and slower speed. Wi-Fi 6E is extended standard to Wi-Fi 6, and it use dedicated 6GHz band that it provides not only brand new frequency to transfer data, but also spacious spectrum for future more devices. With Wi-Fi 6E, users can enjoy faster connection and stronger signal than before.

2.5G LAN

design deliver blisteringly fast transfer speeds to ensure the most stable transmission environment when the system is performing cloud computing or providing external computing services.

High-End Audio Capacitors

These high quality capacitors help deliver high resolution and high fidelity audio to provide the most realistic sound effects.

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Audio Noise Guard

Essentially separates the board's sensitive analog audio components from potential noise pollution at the PCB level.

Born from Ultra Durable™

Technology embodies our commitment to excellence, providing gamers with a platform that's not only powerful but also built for longevity and reliability. GAMING series motherboards are engineered to endure and excel.

PCIe UD Slot

GIGABYTE's one-piece stainless-steel shielding design reinforces the PCIe Slots, providing the extra strength required to support heavy graphics cards.

1.7X

stronger shearing test

3.2X

stronger retention force test

UD Power Connector

Our innovative UD Power Connector design enhances power conductivity and thermal dissipation.

Solid Pins

Delivers superior conductivity and signal transmission and reduces metal wear from repeated connections.

Collaborative Excellence in Computing

GIGABYTE motherboards showcases our devotion to BIOS improvement. Through synergy with our user community, we democratize next-level computing power.

UC BIOS

Restructured with user-centered and intuitive performance adjustment mechanisms.

Multi-Theme

Multiple BIOS skin with newly exclusive grayscale mode

AIO Fan Control

Adjust AIO fan speed in the BIOS

Multi-Theme

Now users can choose different BIOS themes with one simple click It not only delivers an immersive user experience but also offers a brand new user-friendly theme: Grayscale.

AIO Fan Control

Enable non-windows users to adjust AIO fan speed in the BIOS before entering the OS.

AI PerfDrive

Featuring "Recommend me profile" function, AI Perfdrive uses the loading tool to make intelligent evaluation and predictions of the optimal usage scenarios for users. Based on the actual temperature performance of the user's system, it can provide users the most optimal and customized "preset profile" recommendations.

Refined BIOS Interface

GIGABYTE User-Centred (UC) BIOS elevates the interface, delivering an optimized experience through an easy-to-navigate layout and attractive design for optimal usability.

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Quick Access Function

GIGABYTE UC BIOS' Quick Access function selects brings 9 key options from Advanced Mode directly into Easy Mode, enabling swift adjustments without extensive navigation.

GIGABYTE Control Center

A unified software platform encompassing multiple GIGABYTE product.

RGB Fusion

Personalize the RGB illumination on your motherboard and connected peripherals.

Spotlight your flair

Liberate your imagination using GCC's versatile illumination options for your motherboard. Tailor your setup with eye-catching displays that mirror your unique personality and preferences.

Varnish your shine

Programmable RGB LED connectors enable precise control over individual LEDs (for ARGB GEN2 devices), seamlessly managed through the GCC.

Power Monitor

The new feature provides real-time monitoring on CPU Vcore power phases.

- Output current/power in total
- Output of each power phase
- Efficiency

AORUS & HWiNFO Co-branded OSD

AORUS and HWiNFO co-branded OSD(On-Screen Display) can display values as text or graphs in an overlay or independent window, also in full-screen applications and games, with no need for additional software installation.

Default AORUS skin

When using HWiNFO on a GIGABYTE motherboard, a custom AORUS-themed interface automatically activates, offering light and dark options. This AORUS Skin can be manually applied to non-GIGABYTE boards as well.

Memory Timings Monitor

Thanks to the collaborative efforts of GIGABYTE and HWiNFO experts, this sophisticated monitoring tool now provides unprecedented detail in memory timing readouts. This empowers users to closely track memory performance and gather crucial insights.

Detailed BIOS information

GIGABYTE motherboard users can now access comprehensive BIOS details in real-time through HWiNFO. This includes toggle and tweaker statuses, as well as BIOS versions. No need for system reboots to check BIOS info. anymore.

Specifications:

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Specifications	
Product Code	MB-GB860MGX+W
CPU	LGA1851 socket: Support for Intel Core Ultra Processors
	L3 cache varies with CPU

Chipset	Intel B860 Express Chipset
Memory	Support for DDR5 9200(O.C)/ 8800(O.C) / 8600(O.C) / 8400(O.C) / 8266(O.C) / 8200(O.C) / 8000(O.C) / 7950(O.C) / 7900(O.C) / 7800(O.C) / 7600(O.C.) / 7400(O.C.) / 7200(O.C.) / 7000(O.C.) / 6800(O.C.) / 6600(O.C.) / 6400 / 5600 MT/s memory modules
	4 x DDR5 DIMM sockets supporting up to 256 GB (64 GB single DIMM capacity) of system memory
	Dual channel memory architecture
	Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode)
	Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
	Support for Extreme Memory Profile (XMP) memory modules
	(The CPU and memory configuration may affect the supported memory types, data rate (speed), and number of DRAM modules.)
Onboard Graphics	Integrated Graphics Processor-Intel HD Graphics support:
	- 1 x USB4 USB Type-C port, supporting USB4 and DisplayPort video outputs and a maximum resolution of 3840x2160@144 Hz
	* Support for DisplayPort 2.1 version.
	- 1 x DisplayPort, supporting a maximum resolution of 3840x2160@144 Hz
	* Support for DisplayPort 2.1 version.
	- 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz
	* Support for HDMI 2.1 version and HDCP 2.3.
	(Graphics specifications may vary depending on CPU support.)
	Support for up to triple-display at the same time
Audio	Realtek Audio CODEC
	High Definition Audio
	2/4/5.1/7.1-channel
	* You can change the functionality of an audio jack using the audio software. To configure 7.1-channel audio, access the audio software for audio settings.
LAN	Realtek 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps)
Wireless Communication module	Intel Wi-Fi 6E AX211 (PCB rev. 1.0/2.0)
	- WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands
	- BLUETOOTH 5.3
	- Support for 11ax 160MHz wireless standard
	Realtek Wi-Fi 6E RTL8852CE (PCB rev. 1.1/2.1)
	- WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands
	- BLUETOOTH 5.3
	- Support for 11ax 160MHz wireless standard
	(Actual data rate may vary depending on environment and equipment.)

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Expansion Slots	CPU:
	- 1 x PCI Express x16 slot, supporting PCIe 5.0 and running at x16 (PCIEX16)
	* The PCIEX16 slot can only support a graphics card or an NVMe SSD. If only one graphics card is to be installed, be sure to install it in the PCIEX16 slot.
	Chipset:
	- 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x4 (PCIEX4)
Storage Interface	CPU:
	- 1 x M.2 connector (Socket 3, M key, type 2280 PCIe 5.0 x4/x2 SSD support)(M2A_CPU)
	Chipset:
	- 1 x M.2 connector (Socket 3, M key, type 25110/22110/2580/2280 PCIe 4.0x4/x2 SSD support) (M2Q_SB)
	- 4 x SATA 6Gb/s connectors
	RAID 0, RAID 1, RAID 5, and RAID 10 support for SATA storage devices
USB	CPU:
	- 1 x USB4 USB Type-C port on the back panel
	Chipset:
	- 1 x USB Type-C port with USB 3.2 Gen 2 support, available through the internal USB header
	- 5 x USB 3.2 Gen 1 ports (3 ports on the back panel, 2 ports available through the internal USB header)
	Chipset+2 USB 2.0 Hubs:
	- 9 x USB 2.0/1.1 ports (5 ports on the back panel, 4 ports available through the internal USB headers)

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Internal I/O Connectors	1 x 24-pin ATX main power connector
	1 x 8-pin ATX 12V power connectors
	1 x CPU fan header
	1 x CPU fan/water cooling pump header
	1 x system fan header
	1 x system fan/water cooling pump header
	3 x addressable RGB Gen2 LED strip headers
	1 x RGB LED strip header
	2 x M.2 Socket 3 connectors
	4 x SATA 6Gb/s connectors
	1 x front panel header
	1 x front panel audio header
	1 x USB Type-C header, with USB 3.2 Gen 2 support
	1 x USB 3.2 Gen 1 header
	2 x USB 2.0/1.1 headers
	1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0/GC-TPM2.0 SPI V2 module only)
	2 x Thunderbolt add-in card connectors (For GIGABYTE Thunderbolt 5 add-in card only)
	1 x Q-Flash Plus button
	1 x reset jumper
	1 x Clear CMOS jumper
Back Panel Connectors	1 x HDMI port (Note)
	1 x DisplayPort (Note)
	1 x USB4 USB Type-C port (DisplayPort (Note))
	3 x USB 3.2 Gen 1 ports
	5 x USB 2.0/1.1 ports
	2 x antenna connectors (2T2R)
	1 x RJ-45 port
	3 x audio jacks
	(Note) Actual support may vary by CPU.
I/O Controller	iTE I/O Controller Chip

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H/W Monitoring	Voltage detection
	Temperature detection
	Fan speed detection
	Water cooling flow rate detection
	Fan fail warning
	Fan speed control
	* Whether the fan (pump) speed control function is supported will depend on the fan (pump) you install.
BIOS	1 x 256 Mbit flash
	Use of licensed AMI UEFI BIOS
	PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0
Unique Features	Support for GIGABYTE Control Center (GCC)
	* Available applications in GCC may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.
	Support for Q-Flash
	Support for Q-Flash Plus
	Support for Smart Backup
Bundled Software	Norton Internet Security (OEM version)
	LAN bandwidth management software
Form Factor	Micro ATX Form Factor; 24.4cm x 24.4cm

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:

<https://www.comx.co.za/MB-GB860MGX-W-Gigabyte-B860M-GAMING-X-WIFI6E-B860-Express-Buy-p-321838.php>

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