GA-B840M-EAGLE-WIFI6

Gigabyte B840M Eagle WiFi6 AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 mATX Motherboard

Product Overview

Gigabyte B840M Eagle WiFi6 AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 mATX Motherboard, AMD B840 Chipset, 2 x DDR5 DIMM Memory slots, 1 x DisplayPort, 1x HDMI Port, Realtek 2.5GbE LAN Chip, Realtek Wi-Fi 6 RTL8851be, Bluetooth 5.3, 1x PCI Express x16 slot (PCIEX16) support PCIe 4.0 x16 mode, 1x PCI Express x16 slot supporting PCI-e 3.0 and running at x4, 2x M.2 connector supports up to PCI-e 3.0 x2, 4x SATA 6Gb/s connectors, 2x USB 3.2 Gen 1 Ports, USB 2.0/1.1 Ports, USB Type-C Port with USB 3.2 Gen 1 support, 1x PS/2 Keyboard/Mouse Port, 1x Q-Flash Plus Button, 3x audio jacks









Specifications

Overview Summary:

Unlock the full potential of your gaming setup with the Gigabyte B840M Eagle WiFi6 motherboard. Designed for AMD Ryzen 7000, 8000, and 9000 series processors, this mATX motherboard delivers fast performance, seamless connectivity, and reliable stability for both gaming and creative tasks. Shop now to upgrade your build with DDR5 memory support, PCIe 4.0 expansion, and advanced networking options including Wi-Fi 6 and 2.5GbE LAN.

With easy installation features like the EZ-Latch system and comprehensive cooling solutions, you can enjoy a smooth, efficient build experience. Buy now to take advantage of high-quality audio, multiple display outputs via HDMI and DisplayPort,

and robust power delivery for uninterrupted performance.

Performance tier: High-performance

Uses: Gaming, content creation, PC building, high-speed networking, multimedia applications

Overview:

Gigabyte B840M Eagle WiFi6 AMD Ryzen AM5 Motherboard - High-Performance mATX Gaming Platform
Unlock powerful gaming performance with the Gigabyte B840M Eagle WiFi6 motherboard. Designed for AMD Ryzen 7000, 8000, and 9000 series processors, this mATX motherboard delivers advanced connectivity, robust power delivery, and superior cooling for a seamless gaming experience. Its compact design makes it ideal for custom builds without compromising performance.

Description:

The B840M Eagle WiFi6 motherboard comes equipped with dual DDR5 memory slots, PCIe 4.0 and 3.0 support, M.2 storage expansion, and USB Type-C connectivity. It features integrated Wi-Fi 6 and 2.5GbE LAN for ultra-fast network performance. Advanced thermal solutions and AI-driven BIOS optimizations ensure reliable, high-performance computing for gamers and creators alike.

Features:

Enhanced Gaming Performance with X3D Turbo Mode
Experience a new level of gaming with X3D Turbo Mode, which optimizes Ryzen processors for smoother gameplay, higher frame rates, and reduced latency. Even non-X3D Ryzen CPUs benefit from significant performance enhancements.

- One-click acceleration boosts gaming FPS by up to 18%
- Optimized settings for Ryzen 9000 X3D and non-X3D processors
- AI-driven BIOS adjustments for maximum efficiency

Advanced Memory Capabilities
Achieve exceptional DDR5 performance and broad compatibility for all your memory needs.

- Dual-channel DDR5 memory slots supporting AMD EXPO modules
- Overclocking support up to 7600 MT/s
- Qualified Vendor List ensures memory stability and compatibility

Robust Power and VRM Design
Maintain stable performance even under heavy workloads with a strong and reliable power delivery system.

- 5+2+2 digital VRM phases with DrMOS 60A
- Optimized power distribution for CPU, integrated GPU, and PCIe devices
- Premium chokes and capacitors enhance durability and stability

Efficient Cooling Solutions
Keep your system running cool with advanced thermal design.

- Full-metal heatsinks with high thermal conductivity
- M.2 Thermal Guard for enhanced storage cooling
- Smart Fan 6 system allows custom fan curves for quiet and efficient operation
- Up to 7degrees C lower temperatures in intensive gaming tests

User-Friendly Build Experience
Simplify PC assembly with DIY-friendly design and intuitive controls.

- EZ-Latch system for PCIe and M.2 slots enables tool-free installation

- Fast-access controls like Q-Flash Auto Scan and handy BIOS buttons
- Clear assembly layout designed for smooth, hassle-free builds

Comprehensive Connectivity
Enjoy next-generation networking and versatile connectivity options for all your devices.

- Wi-Fi 6 and 2.5GbE LAN for fast and stable internet
- Multiple USB ports including USB 3.2 Gen 1 Type-C
- HDMI and DisplayPort outputs for high-resolution displays

Immersive Audio Experience
Enhance your gaming and media experience with high-quality audio.

- Audio Noise Guard ensures clean signal transmission
- High-end audio capacitors deliver superior sound clarity

Durability and Reliability
Built for long-lasting performance, the B840M Eagle WiFi6 motherboard uses premium materials and design.

- UD Power Connector with solid pins improves power efficiency
- PCIe UD slots with reinforced design for graphics cards
- Ultra-durable construction to withstand heavy gaming and continuous use

Tailored Computing and BIOS Innovation
Customize your system with intuitive software and firmware options.

- User-friendly UC BIOS with multi-theme interface
- AIO Fan Control and Q-Flash Auto Scan for seamless performance tuning
- GIGABYTE Control Center integrates motherboard and peripheral management
- RGB Fusion for full system illumination customization
- HWiNFO co-branded OSD for real-time system monitoring

Key Highlights at a Glance:

- X3D Turbo Mode for enhanced gaming performance
- Supports AMD Ryzen 7000 / 8000 / 9000 series processors
- Dual-channel DDR5 memory with EXPO support
- Digital 5+2+2 VRM design for stable power delivery
- PCIe 4.0 x16 and 3.0 x4 slots for flexible expansion
- Two M.2 slots with advanced thermal protection
- EZ-Latch system for easy assembly
- Smart Fan 6 for customized cooling
- Wi-Fi 6 and 2.5GbE LAN for fast connectivity
- HDMI and DisplayPort for multiple display options
- RGB Fusion for personalized lighting

Specifications:

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Specifications	
Product Code	GA-B840M-EAGLE-WIFI6

CPU	AMD Socket AM5, support for:
	AMD Ryzen 9000 Series Processors/
	AMD Ryzen 8000 Series Processors/
	AMD Ryzen 7000 Series Processors
Chipset	AMD B840
Memory	Support for DDR5 7600(O.C.) / 7200(O.C.) / 7000(O.C.) / 6800(O.C.) / 6600(O.C.) / 6400(O.C) / 6200(O.C) / 6000(O.C) / 5800(O.C) / 5600(O.C) / 5200 / 4800 / 4400 MT/s memory modules.
	2 x DDR5 DIMM sockets supporting up to 128 GB (64 GB single DIMM capacity) of system memory
	Dual channel memory architecture
	Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
	Support forAMD EXtended Profiles for Overclocking (AMD EXPO) and Extreme Memory Profile (XMP) memory modules (The CPU andmemory configurationmay affect the supportedmemory types, data rate (speed), and number of DRAM modules, please refer to "Memory Support List" on GIGABYTE's website for more information.)
Onboard Graphics	Integrated Graphics Processor with AMD Radeon Graphics support:
	- 1 x DisplayPort, supporting a maximum resolution of 3840x2160@144 Hz
	* Support for DisplayPort 1.4 version and HDR.
	- 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz
	* Support for HDMI 2.1 version, HDCP 2.3, and HDR.
	** Support for native HDMI 2.1 TMDS compatible ports.
	(Graphics specifications may vary depending on CPU support.)
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	Realtek Wi-Fi 6 RTL8851BE
	- WIFI a, b, g, n, ac, ax, supporting 2.4/5 GHz carrier frequency bands
	- BLUETOOTH 5.3
	- Support for 11ax 80MHz wireless standard
	(Actual data rate may vary depending on environment and equipment.)

Expansion Slots	1 x PCI Express x16 slot (PCIEX16), integrated in the CPU:
	AMD Ryzen 9000/7000 Series Processors support PCIe 4.0 x16 mode
	AMD Ryzen 8000 Series-Phoenix 1 Processors support PCIe 4.0 x8 mode
	AMD Ryzen 8000 Series-Phoenix 2 Processors support PCIe 4.0 x4 mode
	* 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 3.0 and running at x4 (PCIEX4)
Storage Interface	1 x M.2 connector (M2A_CPU), integrated in the CPU, supporting Socket 3, M key, type 2580/2280 SSDs:
	AMD Ryzen 9000/7000 Series Processors support PCIe 4.0 x4/x2 SSDs
	AMD Ryzen 8000 Series-Phoenix 1 Processors support PCIe 4.0 x4/x2 SSDs
	AMD Ryzen 8000 Series-Phoenix 2 Processors support PCIe 4.0 x4/x2 SSDs
	1 x M.2 connector (M2C_SB), integrated in the Chipset, supporting Socket 3, M key, type 2280 PCIe 3.0 x2 SSDs
	4 x SATA 6Gb/s connectors
	RAID 0, RAID 1, RAID 5, and RAID 10 support for NVMe SSD storage devices
	* RAID 5 is only available on AMD Ryzen 9000 Series Processors.
	RAID 0, RAID 1, and RAID 10 support for SATA storage devices
USB	CPU:
	- 2 x USB 3.2 Gen 1 ports on the back panel
	CPU+USB 2.0 Hub:
	- 4 x USB 2.0/1.1 ports on the back panel
	Chipset:
	- 1 x USB Type-C port with USB 3.2 Gen 1 support, available through the internal USB header
	- 2 x USB 3.2 Gen 1 ports available through the internal USB headers
	- 4 x USB 2.0/1.1 ports available through the internal USB headers

Internal I/O Connectors	1x 24-pin ATX main power connector
	1 x 8-pin ATX 12V power connector
	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
	2 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 1 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)
	1 x reset jumper
	1 x Clear CMOS jumper
Back Panel Connectors	1 x PS/2 keyboard/mouse port
	4 x USB 2.0/1.1 ports
	1 x DisplayPort (Note)
	1 x HDMI port (Note)
	1 x Q-Flash Plus button
	2 x USB 3.2 Gen 1 ports
	1 x RJ-45 port
	2 x SMA antenna connectors (2T2R)
	3 x audio jacks
	(Note) Actual support may vary by CPU.
I/O Controller	iTE I/O Controller Chip

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
Operating System	Support for Windows 11 64-bit
	Support for Windows 10 64-bit
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/GA-B840M-EAGLE-WIFI6-Gigabyte-B840M-Eagle-WiFi6-AMD-Ryzen-7000-8000-9000-Series-Socket-p-329363.php

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