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B840M EAGLE WIFI6 (Rev. 1.2) [Rev. 1.2](#) [Rev. 1.0/1.1](#)

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Especificações

CPU

AMD Socket AM5, support for:
AMD Ryzen™ 9000 Series Processors/
AMD Ryzen™ 8000 Series Processors/
AMD Ryzen™ 7000 Series Processors
(Go to GIGABYTE's website for the latest CPU support list.)

Chipset

AMD B840

Memória

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 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 for AMD EXtended Profiles for Overclocking (AMD EXPO™) and 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, please refer to "Memory Support List" on GIGABYTE's website for more information.)

Gráficos Onboard

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.)

Compare

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 5.4

- Support for 11ax 80MHz wireless standard

(Actual data rate may vary depending on environment and equipment.)

* Bluetooth version may change with updates. See the Wi-Fi chip vendor's website for details.

Slots de Expansão

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)

Interface de Armazenamento

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:

- 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

Conectores Internos I/O

- 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 V2 module only)
- 1 x reset jumper
- 1 x Clear CMOS jumper

Conectores Painel Traseiro

- 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.

Controlador I/O

iTE® I/O Controller Chip

Monitoramento H/W

- Voltage detection
- Temperature detection
- Fan speed detection
- Water cooling flow rate detection

* 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

Características Exclusivas

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

Pacote de Software

Norton® Internet Security (OEM version)

Sistema Operacional

Support for Windows 11 64-bit

Support for Windows 10 64-bit

Form Factor

Micro ATX Form Factor; 24.4cm x 24.4cm



* Os termos e expressões "HDMI", "HDMI High-Definition Multimedia Interface" e "Trade dress da HDMI", e os Logotipos da HDMI são marcas comerciais ou marcas registradas da HDMI Licensing Administrator, Inc.

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* Devido a arquitetura padrão PC, uma quantia de memória é reservada para uso do sistema, portanto o tamanho da memória é menor do que a quantia exibida

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