



B650 GAMING X AX (rev. 1.5)

[Características](#) [Especificação](#) [Suporte](#) [Galeria de Imagens](#) [Compre](#)[rev. 1.4](#) [rev. 1.3](#) [rev. 1.0/1.1/1.2](#)

AMD B650 Chipset

 [Lista de Comparativos](#)

CPU

1. AMD Socket AM5, support for: AMD Ryzen™ 7000/ Ryzen™ 8000 Series Processors

(Please refer "CPU Support List" for more information.)

Chipset

1. AMD B650

Memória

1. Support for DDR5 8000(OC)/ 7800(OC)/ 7600(OC)/ 7200(OC)/ 7000(OC)/ 6800(OC)/ 6600(OC)/ 6400(OC)/ 6200(OC)/ 6000(OC)/ 5600(OC)/ 5200/ 4800/ 4400 MT/s memory modules
2. 4 x DDR5 DIMM sockets supporting up to 192 GB (48 GB single DIMM capacity) of system memory
3. Dual channel memory architecture
4. Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
5. 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. 1 x DisplayPort, supporting a maximum resolution of 3840x2160@144 Hz
* Support for DisplayPort 1.4 version and HDR.
2. 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz
* Support for HDMI 2.1 version and HDCP 2.3.
** Support native HDMI 2.1 TMDS compatible ports.

(Graphics specifications may vary depending on CPU support.)



Compare

Clear All

LAN

1. Realtek® 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps)

Wireless Communication module

Realtek® Wi-Fi 6E RTL8852CE

1. WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands
2. BLUETOOTH 5.3
3. Support for 11ax 160MHz wireless standard

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

Slots de Expansão

1 x PCI Express x16 slot (PCIEX16), integrated in the CPU:

1. AMD Ryzen™ 7000 Series Processors support PCIe 4.0 x16 mode
2. AMD Ryzen™ 8000 Series-Phoenix 1 Processors support PCIe 4.0 x8 mode*
* Only for PCB rev. 1.5 or later.
3. AMD Ryzen™ 8000 Series-Phoenix 2 Processors support PCIe 4.0 x4 mode*
* Only for PCB rev. 1.5 or later.

** 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. 2 x PCI Express x16 slots, supporting PCIe 3.0 and running at x1 (PCIEX1_1/2)

Interface de Armazenamento

1 x M.2 connector (M2A_CPU), integrated in the CPU, supporting Socket 3, M key, type 25110/2580 SSDs:

1. AMD Ryzen™ 7000 Series Processors support PCIe 4.0 x4/x2 SSDs (PCB rev. 1.0/1.1)
2. AMD Ryzen™ 7000 Series Processors support PCIe 5.0 x4/x2 SSDs (PCB rev. 1.2/1.3/1.4/1.5)
3. AMD Ryzen™ 8000 Series-Phoenix 1 Processors support PCIe 4.0 x4/x2 SSDs*
* Only for PCB rev. 1.5 or later.
4. AMD Ryzen™ 8000 Series-Phoenix 2 Processors support PCIe 4.0 x4/x2 SSDs*
* Only for PCB rev. 1.5 or later.



[Clear All](#)

Only for PCB rev. 1.5 or later.

Chipset:

1. 1 x M.2 connector (Socket 3, M key, type 25110/2280 PCIe 4.0 x4/x2 SSD support) (M2C_SB)

4 x SATA 6Gb/s connectors

RAID 0, RAID 1, and RAID 10 support for NVMe SSD storage devices

RAID 0, RAID 1, and RAID 10 support for SATA storage devices

CPU:

1. 1 x USB Type-C® port on the back panel, with USB 3.2 Gen 2 support
2. 1 x USB 3.2 Gen 2 Type-A port (red) on the back panel
3. 1 x USB 3.2 Gen 1 port on the back panel

CPU + USB 2.0 Hub:

1. 3 x USB 2.0/1.1 ports on the back panel

Chipset:

1. 1 x USB Type-C® port with USB 3.2 Gen 2x2 support, available through the internal USB header
 2. 4 x USB 3.2 Gen 1 ports (2 ports on the back panel, 2 ports available through the internal USB header)
 3. 4 x USB 2.0/1.1 ports available through the internal USB headers
-

USB

Conectores Internos I/O

1. 1 x 24-pin ATX main power connector
2. 1 x 8-pin ATX 12V power connector
3. 1 x 4-pin ATX 12V power connector
4. 1 x CPU fan header
5. 1 x CPU fan/water cooling pump header
6. 2 x system fan headers
7. 1 x system fan/water cooling pump header
8. 2 x addressable LED strip headers
9. 2 x RGB LED strip headers
10. 1 x CPU cooler LED strip/RGB LED strip header



[Clear All](#)

17. 2 x USB 2.0/1.1 headers
18. 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)
19. 1 x serial port header
20. 1 x reset button
21. 1 x reset jumper
22. 1 x Clear CMOS jumper

Conectores Painel Traseiro

1. 2 x SMA antenna connectors (2T2R)
2. 1 x Q-Flash Plus button
3. 1 x DisplayPort
4. 1 x HDMI port
5. 1 x USB Type-C® port, with USB 3.2 Gen 2 support
6. 1 x USB 3.2 Gen 2 Type-A port (red)
7. 3 x USB 3.2 Gen 1 ports
8. 3 x USB 2.0/1.1 ports
9. 1 x RJ-45 port
10. 3 x audio jacks

Controlador I/O

1. iTE® I/O Controller Chip

Monitoramento H/W

1. Voltage detection
2. Temperature detection
3. Fan speed detection
4. Water cooling flow rate detection
5. Fan fail warning
6. Fan speed control

* Whether the fan (pump) speed control function is supported will depend on the fan (pump) you install.

BIOS

1. 1 x 256 Mbit flash
2. Use of licensed AMI UEFI BIOS



Clear All

- 2. Support for Q-Flash
- 3. Support for Q-Flash Plus

Pacote de Software

- 1. Norton® Internet Security (OEM version)
- 2. LAN bandwidth management software

Sistema Operacional

- 1. Support for Windows 11 64-bit
- 2. Support for Windows 10 64-bit

Form Factor

- 1. ATX Form Factor; 30.5cm 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



SOBRE A GIGABYTE

About Us

CSR

CONSUMER

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Server Motherboard

Rack Server

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