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# Z790M AORUS ELITE AX (rev. 1.1)

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Intel® Z790 Chipset

[Lista de Comparativos](#)

## CPU

- 1. LGA1700 socket: Support for the 14th, 13th, and 12th Generation Intel® Core™, Pentium® Gold and Celeron® Processors
- 2. L3 cache varies with CPU

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

## Chipset

- 1. Intel® Z790 Express Chipset

## Memória

- 1. Support for DDR5 7600(O.C.) /7400(O.C.) /7200(O.C.) /7000(O.C.) /6800(O.C.) /6600(O.C.) / 6400(O.C.) / 6200(O.C.) /

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(operate in non-ECC mode)

5. Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
6. 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, please refer to "Memory Support List" for more information.)

## Gráficos Onboard

Integrated Graphics Processor-Intel® HD Graphics support:

1. 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.
2. 1 x DisplayPort, supporting a maximum resolution of 4096x2304@60
  - \* Support for DisplayPort 1.2 version and HDCP 2.3

(Graphics specifications may vary depending on CPU support.)

## Áudio

1. Realtek® ALC1220 CODEC
  - \* The back panel line out jack supports DSD audio.

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**LAN**

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

**Wireless  
Communication  
module**Realtek<sup>®</sup> 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 and up to 2.4 Gbps data rate

\* Actual data rate may vary depending on environment and equipment.

**Slots de  
Expansão**

CPU:

1. 1 x PCI Express x16 slot, supporting PCIe 5.0 and running at x16 (PCIEX16)

\* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.

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**Interface de Armazenamento**

1. 1 x M.2 connector (Socket 3, M key, type 2280 PCIe 4.0 x4/x2 SSD support) (M2A\_CPU)

## Chipset:

1. 1 x M.2 connector (Socket 3, M key, type 2280 PCIe 4.0 x4/x2 SSD support) (M2Q\_SB)
2. 1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2P\_SB)
3. 6 x SATA 6Gb/s connectors

RAID 0, RAID 1, RAID 5, and RAID 10 support for NVMe SSD storage devices

RAID 0, RAID 1, RAID 5, and RAID 10 support for SATA storage devices

**USB**

## Chipset:

1. 1 x USB Type-C<sup>®</sup> port on the back panel, with USB 3.2 Gen 2x2 support
2. 1 x USB Type-C<sup>®</sup> port with USB 3.2 Gen 2 support, available through the internal USB header
3. 1 x USB 3.2 Gen 2 Type-A port (red) on the back panel

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1. 8 x USB 2.0/1.1 ports (4 ports on the back panel, 4 ports available through the internal USB headers)

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### 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 water cooling CPU fan header
6. 3 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. 3 x M.2 Socket 3 connectors
11. 6 x SATA 6Gb/s connectors
12. 1 x front panel header
13. 1 x front panel audio header
14. 1 x USB Type-C<sup>®</sup> header, with USB 3.2 Gen 2 support
15. 1 x USB 3.2 Gen 1 header
16. 2 x USB 2.0/1.1 headers
17. 2 x Thunderbolt<sup>™</sup> add-in card connectors

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23. 1 x reset jumper

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**Conectores  
Painel Traseiro**

1. 1 x USB Type-C<sup>®</sup> port, with USB 3.2 Gen 2x2 support
  2. 1 x USB 3.2 Gen 2 Type-A port (red)
  3. 4 x USB 3.2 Gen 1 ports
  4. 4 x USB 2.0/1.1 ports
  5. 2 x SMA antenna connectors (2T2R)
  6. 1 x HDMI 2.0 port
  7. 1 x DisplayPort
  8. 1 x RJ-45 port
  9. 1 x optical S/PDIF Out connector
  10. 2 x audio jacks
- 

**Controlador I/O**

1. iTE<sup>®</sup> I/O Controller Chip
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**Monitoramento  
H/W**

1. Voltage detection
2. Temperature detection
3. Fan speed detection
4. Water cooling flow rate detection

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**BIOS**

1. 1 x 256 Mbit flash
2. Use of licensed AMI UEFI BIOS
3. PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

**Características  
Exclusivas**

1. 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.
2. Support for Q-Flash
3. Support for Q-Flash Plus
4. Support for Smart Backup

**Pacote de  
Software**

1. Norton<sup>®</sup> Internet Security (OEM version)
2. LAN bandwidth management software

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### Form Factor

1. Micro ATX Form Factor; 24.4cm x 24.4cm

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- \* 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.
- \* Todos os materiais disponíveis são para simples referência. A GIGABYTE reserva o direito de modificar ou revisar o conteúdo a qualquer momento sem aviso prévio.
- \* Todas as marcas e logotipos são de propriedade de suas respectivas proprietárias.
- \* 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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