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# Z790M AORUS ELITE (rev. 1.1) [rev. 1.0](#)

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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.) / 6000(O.C.) / 5800(O.C.) / 5600(O.C.) / 5400(O.C.) / 5200(O.C.) /

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

**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.

**Chipset:**

1. 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x4 (PCIEX4)

**Interface de Armazenamento****CPU:**

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

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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

#### 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

#### USB

##### Chipset+2 USB 2.0 Hubs:

1. 6 x USB 3.2 Gen 1 ports (4 ports on the back panel, 2 ports available through the internal USB header)

##### Chipset+2 USB 2.0 Hubs:

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**

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™ add-in card connectors
18. 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0 module only)
19. 1 x serial port header
20. 1 x reset button
21. 1 x Q-Flash Plus button
22. 1 x Clear CMOS button
23. 1 x reset jumper

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**Painel Traseiro**

6. 1 x DisplayPort
7. 1 x RJ-45 port
8. 1 x optical S/PDIF Out connector
9. 2 x audio jacks

**Controlador I/O**

1. iTE<sup>®</sup> 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.

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### Características Exclusivas

- 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

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### Pacote de Software

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

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### Sistema Operacional

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

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### Form Factor

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