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# Z790 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 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.) / 4800 / 4000 memory modules

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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 2.0 version and HDCP 2.3.
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® Audio CODEC
2. High Definition Audio
3. 2/4/5.1/7.1-channel  
\* You can change the functionality of an audio jack using the

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**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\_1)
2. 1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x4 (PCIEX4\_2)

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

1. 1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2A\_CPU)

**Chipset:**

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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

\* Refer to "2-8 Internal Connectors," for the installation notices for the M.2 and SATA connectors.

**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. 2 x USB 3.2 Gen 2 Type-A ports (red) on the back panel
4. 5 x USB 3.2 Gen 1 ports (3 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. 1 x system fan/water cooling pump header
7. 2 x addressable LED strip headers
8. 2 x RGB LED strip headers
9. 4 x M.2 Socket 3 connectors
10. 6 x SATA 6Gb/s connectors
11. 1 x front panel header
12. 1 x front panel audio header
13. 1 x USB Type-C<sup>®</sup> header, with USB 3.2 Gen 2 support
14. 1 x USB 3.2 Gen 1 header
15. 2 x USB 2.0/1.1 headers
16. 2 x Thunderbolt™ add-in card connectors
17. 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0 module only)
18. 1 x reset button
19. 1 x Q-Flash Plus button
20. 1 x Clear CMOS button
21. 1 x reset jumper
22. 1 x Clear CMOS jumper

**Conectores Painel Traseiro**

1. 1 x USB Type-C<sup>®</sup> port, with USB 3.2 Gen 2x2 support
2. 2 x USB 3.2 Gen 2 Type-A ports (red)

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9. 2 x audio jacks

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**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
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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**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
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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. ATX Form Factor; 30.5cm 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.

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