



Z790 AERO G (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 to "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 USB Type-C® port, supporting USB 3.2 Gen 2 and DisplayPort video outputs and a maximum resolution of 4096x2304@60 Hz
 - * Support for drawing tablets and 20V@3A of power delivery.
 - * Support for DisplayPort 1.4 version and HDR.
2. 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz
 - * Support for HDMI 2.0 version and HDCP 2.3.

(Graphics specifications may vary depending on CPU or graphics card support.)

Áudio

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

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LAN

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

**Wireless
Communication
module**

Intel® Wi-Fi 6E AX211

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)
* The PCIEX16 slot shares bandwidth with the M2C_CPU connector. The PCIEX16 slot operates at up to x8 mode when a device is installed in the M2C_CPU connector

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- (PCIEX4_1)
2. 1 x PCI Express x16 slots, 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 25110/2280 PCIe 5.0 x4/x2 SSD support) (M2C_CPU)
2. 1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2A_CPU)

Chipset:

1. 1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2Q_SB)
2. 1 x M.2 connector (Socket 3, M key, type 2280 PCIe 4.0 x4/x2 SSD support) (M2P_SB)
3. 1 x M.2 connector (Socket 3, M key, type 2280 SATA and PCIe 4.0 x4/x2 SSD support) (M2M_SB)
4. 4 x SATA 6Gb/s connectors

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

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USB

- the back panel, 1 port available through the internal USB header)
- 2. 1 x USB Type-C[®] port on the back panel, with USB 3.2 Gen 2 support
- 3. 2 x USB 3.2 Gen 2 Type-A ports (red) on the back panel
- 4. 2 x USB 3.2 Gen 1 ports available through the internal USB header
- 5. 2 x USB 2.0/1.1 ports on the back panel

Chipset+USB 3.2 Gen 1 Hub:

- 1. 4 x USB 3.2 Gen 1 ports on the back panel

Chipset+USB 2.0 Hub:

- 1. 4 x USB 2.0/1.1 ports available through the internal USB headers

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. 4 x system fan headers

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13. 1 x front panel audio header
14. 1 x USB Type-C[®] header, with USB 3.2 Gen 2x2 support
15. 1 x USB 3.2 Gen 1 header
16. 2 x USB 2.0/1.1 headers
17. 1 x noise detection header
18. 2 x Thunderbolt™ add-in card connectors
19. 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0 module only)
20. 1 x serial port header
21. 1 x Q-Flash Plus button
22. 1 x reset button
23. 1 x reset jumper
24. 2 x temperature sensor headers
25. 1 x Clear CMOS jumper

Conectores

Painel Traseiro

1. 2 x USB 2.0/1.1 ports
2. 2 x SMA antenna connectors (2T2R)
3. 4 x USB 3.2 Gen 1 ports
4. 1 x DisplayPort In port
5. 1 x HDMI 2.0 port
6. 2 x USB 3.2 Gen 2 Type-A ports (red)
7. 1 x USB Type-C[®] port, with USB 3.2 Gen 2x2 support

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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.
7. Noise detection

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.

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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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