



Z790 AORUS ELITE X AX

Intel® Z790 Chipset

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CPU

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

* Please refer to "CPU Support List" for more information.

Chipset

Intel® Z790 Express Chipset

Memória

Support for DDR5 8266(O.C.) / 8200(O.C.) / 8000(O.C.) / 7950(O.C.) / 7900(O.C.) / 7800(O.C.) / 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 MT/s memory modules

4 x DDR5 DIMM sockets supporting up to 192 GB (48 GB single DIMM capacity) of system memory Dual channel memory architecture

Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode)

Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules

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 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.

- 1 x DisplayPort, supporting a maximum resolution of 4096x2304@60 Hz

* Support for DisplayPort 1.2 version and HDCP 2.3

(Graphics specifications may vary depending on CPU support.)

Áudio

Realtek® ALC1220-VB CODEC

* The back panel line out jack supports DSD audio.

High Definition Audio



Compare

Clear All

Wireless Communication module

Realtek® Wi-Fi 6E RTL8852CE (PCB rev. 1.0)
- WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands
- BLUETOOTH 5.3
- Support for 11ax 160MHz wireless standard
Intel® Wi-Fi 6E AX211 (For PCB rev. 1.1)
- WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands
- BLUETOOTH 5.3
- Support for 11ax 160MHz wireless standard
(Actual data rate may vary depending on environment and equipment.)

Slots de Expansão

CPU:
- 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:
- 2 x PCI Express x16 slots, supporting PCIe 4.0 and running at x4 (PCIEX4_1/PCIEX4_2)

Interface de Armazenamento

CPU:
- 1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2A_CPU)
Chipset:
- 2 x M.2 connectors (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2P_SB, M2Q_SB)
- 1 x M.2 connector (Socket 3, M key, type 22110/2280 SATA and PCIe 4.0 x4 SSD support) (M2M_SB)
- 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
* Refer to "2-8 Internal Connectors," for the installation notices for the M.2 and SATA connectors.

USB

Chipset:
- 1 x USB Type-C® port on the back panel, with USB 3.2 Gen 2x2 support
- 1 x USB Type-C® port with USB 3.2 Gen 2 support, available through the internal USB header
- 2 x USB 3.2 Gen 2 Type-A ports (red) on the back panel
- 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:



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| Conectores Internos I/O | <ul style="list-style-type: none"> 1 x CPU fan/water cooling pump header 3 x system fan headers 1 x system fan/water cooling pump header 3 x addressable RGB Gen2 LED strip headers 1 x RGB LED strip header 4 x M.2 Socket 3 connectors 6 x SATA 6Gb/s connectors 1 x front panel header 1 x front panel audio header 1 x USB Type-C® header, with USB 3.2 Gen 2 support 1 x USB 3.2 Gen 1 header 2 x USB 2.0/1.1 headers 2 x Thunderbolt™ add-in card connectors 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) 1 x reset button 1 x Q-Flash Plus button 1 x Clear CMOS button 1 x reset jumper 1 x Clear CMOS jumper |
| Conectores Painel Traseiro | <ul style="list-style-type: none"> 1 x USB Type-C® port, with USB 3.2 Gen 2x2 support 2 x USB 3.2 Gen 2 Type-A ports (red) 3 x USB 3.2 Gen 1 ports 4 x USB 2.0/1.1 ports 2 x SMA antenna connectors (2T2R) jk 1 x HDMI port 1 x DisplayPort 1 x RJ-45 port 1 x optical S/PDIF Out connector 2 x audio jacks |
| Controlador I/O | iTE® I/O Controller Chip |
| Monitoramento H/W | <ul style="list-style-type: none"> Voltage detection Temperature detection Fan speed detection Water cooling flow rate detection |



Clear All

BIOS

1 X 256 MBIT TIAN
 Use of licensed AMI UEFI BIOS
 PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

Características Exclusivas

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.
 Support for Q-Flash
 Support for Q-Flash Plus
 Support for Smart Backup

Pacote de Software

Norton® Internet Security (OEM version)
 LAN bandwidth management software

Sistema Operacional

Support for Windows 11 64-bit
 Support for Windows 10 64-bit

Form Factor

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

