

## GIGABYTE Z790 AORUS ELITE X AX motherboard Intel Z790 LGA 1700 ATX

**Brand :** GIGABYTE

**Product code:** Z790 AORUS ELITE X AX

**Product name :** Z790 AORUS ELITE X AX

- Supports Intel® Core™ 14th and 13th processors
  - Digital twin 16+1+2 phases VRM solution
  - Dual Channel DDR5 4\*DIMMs with XMP 3.0 memory module support
  - PCIe UD Slot X PCIe 5.0 x16 slot with 10X strength for graphics card
  - EZ-Latch Click M.2 heatsinks with screwless design
  - EZ-Latch Plus M.2 slots with quick release design
  - UC BIOS User-Centred intuitive UX with Quick Access function
  - Ultra-Fast Storage 4\*PCIe 4.0 x4 M.2 slots
  - Efficient Overall Thermal VRM Thermal Armor Advanced & M.2 Thermal Guard L
  - Fast Networking 2.5GbE LAN & Wi-Fi 6E with Ultra-high gain antenna
  - Extended Connectivity DP, HDMI, Front USB-C® 10Gb/s, Rear USB-C® 20Gb/s
  - Precision Audio ALC1220 & Audiophile Grade Capacitors
- Intel Z790, 4 x DDR5, 1 x HDMI, 1 x DisplayPort, GbE LAN, 6 x SATA, ATX, Wi-Fi



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Processor socket *	LGA 1700	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold	USB 3.2 Gen 2x2 Type-C ports quantity	1
Supported processor sockets	LGA 1700	Ethernet LAN (RJ-45) ports *	1
<b>Memory</b>		HDMI ports quantity *	1
Supported memory types *	DDR5-SDRAM	HDMI version	2.0
Number of memory slots *	4	DisplayPorts quantity	1
Memory slots type	DIMM	DisplayPort version	1.2
Memory channels	Dual-channel	Headphone outputs	2
ECC	✓	Microphone in	✓
Non-ECC	✓	S/PDIF out port	✓
Supported memory clock speeds	8266, 8200, 8000, 7950, 7900, 7800, 7600, 7400, 7200, 7000, 6800, 6600, 6400, 6200, 6000, 5800, 5600, 5400, 5200, 4800, 4000 MHz	WiFi-AP antenna jack	2
Supported memory clock speed (max)	8266 MHz	USB connector type	USB Type-A, USB Type-C
Maximum internal memory *	192 GB	<b>Network</b>	
Unbuffered memory	✓	Ethernet LAN	✓
<b>Storage controllers</b>		Ethernet interface type	2.5 Gigabit Ethernet
Supported storage drive types	HDD & SSD	Wi-Fi *	✓
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Number of storage drives supported	10	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax)
RAID support	✓	WLAN controller model	Realtek RTL8852CE
RAID levels	0, 1, 5, 10	Bluetooth	✓
<b>Graphics</b>		Bluetooth version	5.3
Parallel processing technology support *	Not supported	<b>Features</b>	
Maximum resolution	4096 x 2304 pixels	Motherboard chipset *	Intel Z790
HDCP	✓	Audio output channels *	7.1 channels
		PC health monitoring	Fan, Temperature, Voltage, Water cooling
		Component for *	PC

Internal I/O		Features	
USB 2.0 connectors *	2	Motherboard form factor *	ATX
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	Motherboard chipset family *	Intel
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Windows operating systems supported	Windows 10 x64, Windows 11 x64
Number of SATA III connectors *	6	<b>Expansion slots</b>	
Front panel audio connector	✓	PCI Express x16 slots	3
Front panel connector	✓	Number of M.2 (M) slots	4
ATX Power connector (24-pin)	✓	<b>BIOS</b>	
CPU fan connector	✓	BIOS type *	UEFI AMI
EPS power connector (8-pin)	✓	BIOS memory size	256 Mbit
TPM connector	✓	ACPI version	5.0
Thunderbolt headers	2	Clear CMOS jumper	✓
12V power connector	✓	Clear CMOS button	✓
RGB LED pin header	✓	Desktop Management Interface (DMI) version	2.7
<b>Rear panel I/O ports</b>		System Management BIOS (SMBIOS) version	2.7
USB 2.0 ports quantity *	4	<b>Weight &amp; dimensions</b>	
		Width	305 mm
		Depth	244 mm
		<b>Packaging content</b>	
		Cables included	SATA
		Bundled software	Norton Internet Security

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