

## Gigabyte Z790 AORUS ELITE AX-W Motherboard - Supports Intel Core 14th CPUs, 16\*+1+2 Phases Digital VRM, up to 7600MHz DDR5 (OC), 4xPCIe 4.0 M.2, Wi-Fi 6E, 2.5GbE LAN, USB 3.2 Gen 2x2

**Brand :** Gigabyte

**Product code:** Z790 AORUS ELITE AX-W

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Z790 AORUS ELITE AX-W Intel LGA 1700 E-ATX Motherboard, 4x DDR5 ~128GB, 2x PCI-E x16, 5x M.2, 4x SATA, 10x USB 3.2, 2x USB-C

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Elevate your computing experience with GIGABYTE's renowned motherboard series: AORUS, AERO, and GIGABYTE. Featuring innovative designs and advanced features, these boards offer exceptional performance and reliability. Whether you're a gamer, content creator, or professional, our series cater to your needs, ensuring uncompromising quality and cutting-edge technology.



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	DisplayPort version	1.2
Processor socket *	LGA 1700	Headphone outputs	2
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold	Microphone in	✓
Supported processor sockets	LGA 1700	S/PDIF out port	✓
Maximum internal memory supported by processor	192 GB	WiFi-AP antenna jack	2
<b>Memory</b>		USB connector type	USB Type-A, USB Type-C
Supported memory types *	DDR5-SDRAM	<b>Network</b>	
Number of memory slots *	4	Ethernet LAN	✓
Memory slots type	DIMM	Ethernet interface type	2.5 Gigabit Ethernet
Memory channels	Dual-channel	Wi-Fi *	✓
ECC	✓	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Non-ECC	✓	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)
Supported memory clock speeds	7600,7400,7200,4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000 MHz	WLAN controller model	Intel Wi-Fi 6E AX211
Supported memory clock speed (max)	7600 MHz	Bluetooth	✓
Maximum internal memory *	192 GB	Bluetooth version	5.3
Supported memory module capacities	1GB, 2GB, 4GB, 8GB, 12GB, 16GB, 32GB, 48GB	<b>Features</b>	
Unbuffered memory	✓	Motherboard chipset *	Intel Z790 Express
<b>Storage controllers</b>		Audio output channels *	7.1 channels
Supported storage drive types	HDD & SSD	Product colour	Black
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Number of HDDs supported	6	Component for *	PC
Number of storage drives supported	10	Motherboard form factor *	ATX
RAID support	✓	Motherboard chipset family *	Intel
RAID levels	0, 1, 5, 10	Windows operating systems supported	Windows 10 x64, Windows 11 x64
<b>Graphics</b>		<b>Expansion slots</b>	
Parallel processing technology support *	Crossfire	PCI Express x16 (Gen 3.x) slots	1
Maximum resolution	4096 x 2304 pixels	PCI Express x16 (Gen 4.x) slots	1
HDCP	✓	PCI Express x16 (Gen 5.x) slots	1
DirectX version	12.0	<b>Internal I/O</b>	
<b>Internal I/O</b>		USB 2.0 connectors *	2

<b>Internal I/O</b>		<b>Expansion slots</b>	
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	Number of M.2 (M) slots	4
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	<b>BIOS</b>	
Number of SATA III connectors *	6	BIOS type *	UEFI AMI
Total number of SATA connectors	6	BIOS memory size	256 Mbit
Front panel audio connector	✓	ACPI version	5.0
Front panel connector	✓	Clear CMOS jumper	✓
ATX Power connector (24-pin)	✓	Clear CMOS button	✓
CPU fan connector	✓	Desktop Management Interface (DMI) version	2.7
EPS power connector (8-pin)	✓	System Management BIOS (SMBIOS) version	2.7
TPM connector	✓	<b>Logistics data</b>	
Thunderbolt headers	2	Country of origin	China
12V power connector	✓	Products per shipping (inner) case	1 pc(s)
RGB LED pin header	✓	<b>Battery</b>	
<b>Rear panel I/O ports</b>		Battery weight	3 g
USB 2.0 ports quantity *	4	Lithium weight per battery	0.07 g
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	Number of battery cells	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2	Battery technology	Lithium-Manganese Dioxide (LiMnO <sub>2</sub> )
USB 3.2 Gen 2x2 Type-C ports quantity	1	Battery type	CR2032
Ethernet LAN (RJ-45) ports *	1	<b>Packaging data</b>	
HDMI ports quantity *	1	Package width	335 mm
HDMI version	2.0	Package depth	270 mm
DisplayPorts quantity	1	Package height	80 mm
		Package weight	2.32 kg
		<b>Weight &amp; dimensions</b>	
		Width	305 mm
		Depth	244 mm
		Height	35 mm
		<b>Packaging content</b>	
		Cables included	SATA
		Batteries included	✓
		Bundled software	Norton Internet Security
		<b>Technical details</b>	
		Warranty period	3 year(s)



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