

## Gigabyte Z790 AORUS ELITE X WIFI7 Motherboard - Supports Intel 14th Gen CPUs, 16+1+2 phases VRM, up to 8266MHz DDR5 (OC), 3xPCIe 4.0 M.2, Wi-Fi 7, 2.5GbE LAN, USB 3.2 Gen 2x2

**Brand :** Gigabyte

**Product code:** Z790 AORUS ELITE X WIFI7

**Product name :** Z790 AORUS ELITE X WIFI7 Motherboard - Supports Intel 14th Gen CPUs, 16+1+2 phases VRM, up to 8266MHz DDR5 (OC), 3xPCIe 4.0 M.2, Wi-Fi 7, 2.5GbE LAN, USB 3.2 Gen 2x2



- LGA 1700: Supports Intel Core 13th and next-gen processors
  - Digital twin 16+1+2 phases VRM solution
  - Full support up to DDR5-8266
  - VRM Thermal Armor Advanced & M.2 Thermal Guard L
  - DIY-Friendly Design: Quick Release & Screwless Design for M.2 modules and graphics card
- Intel Core 14th, 4 x DIMM, PCIe 5.0 x16, DP, HDMI, 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	Headphone outputs	1
Processor socket *	LGA 1700	Microphone in	✓
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3,	S/PDIF out port	✓
	Intel® Core™ i5, Intel® Core™ i7,	Digital audio optical out	1
Maximum number of SMP processors	1	WiFi-AP antenna jack	2
	Supported processor sockets	LGA 1700	USB connector type
Memory		Network	
Supported memory types *	DDR5-SDRAM	Ethernet LAN	✓
Number of memory slots *	4	Ethernet interface type	2.5 Gigabit Ethernet
Memory slots type	DIMM	LAN controller	Realtek RTL8125
Memory channels	Dual-channel	Wi-Fi *	✓
ECC	✓	Top Wi-Fi standard	Wi-Fi 7 (802.11be)
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), Wi-Fi 7 (802.11be)
Supported memory clock speeds	4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600,7800,7900,7950,8000,8200,8266 MHz		Bluetooth
Supported memory clock speed (max)	8266 MHz	Bluetooth version	5.3
Maximum internal memory *	192 GB	Features	
Unbuffered memory	✓	Motherboard chipset *	Intel Z790 Express
Storage controllers		Audio chip	Realtek ALC1220-VB
Supported storage drive types	HDD & SSD	Audio output channels *	7.1 channels
Supported storage drive interfaces *	M.2, SATA III	Product colour	Black
Number of HDDs supported	6	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Number of storage drives supported	10	Component for *	PC
RAID support	✓	Motherboard form factor *	ATX
RAID levels	0, 1, 5, 10	Motherboard chipset family *	Intel
Graphics		Windows operating systems supported	Windows 11 x64
Parallel processing technology support *	Not supported	Expansion slots	
Maximum resolution	4096 x 2304 pixels	PCI Express x16 (Gen 4.x) slots	2
HDCP	✓	PCI Express x16 (Gen 5.x) slots	1
DirectX version	12.0		
Internal I/O			
USB 2.0 connectors *	2		
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1		

Internal I/O		Expansion slots	
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Number of M.2 (M) slots	4
Number of SATA III connectors *	6	<b>BIOS</b>	
Front panel audio connector	✓	BIOS type *	UEFI AMI
Front panel connector	✓	BIOS memory size	256 Mbit
ATX Power connector (24-pin)	✓	ACPI version	5.0
Number of EATX power connectors	2	Clear CMOS jumper	✓
CPU fan connector	✓	Clear CMOS button	✓
Number of chassis fan connectors	4	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 (LiMnO2)
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
DisplayPort version	1.2	Package weight	2.52 kg
		<b>Weight &amp; dimensions</b>	
		Width	305 mm
		Depth	244 mm
		Height	35 mm
		<b>Packaging content</b>	
		Cables included	SATA
		Batteries included	✓
		Antenna included	✓
		Bundled software	Norton® Internet Security (OEM version) LAN bandwidth management software
		<b>Technical details</b>	
		Warranty period	3 year(s)



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