

## Gigabyte Z790 AORUS ELITE X WIFI7 motherboard Intel Z790 Express LGA 1700 ATX

**Brand :** Gigabyte

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

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

- Supports Intel® Core™ 13th and next-gen 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 7 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 Core 13th, 4 x DIMM, PCIe 5.0 x16, DP, HDMI, USB-C



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2
Processor socket *	LGA 1700	USB 3.2 Gen 2x2 Type-C ports quantity	1
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold	Ethernet LAN (RJ-45) ports *	1
Supported processor sockets	LGA 1700	HDMI ports quantity *	1
		HDMI version	2.0
		DisplayPorts quantity	1
		DisplayPort version	1.2
		Headphone outputs	2
		Microphone in	✓
		S/PDIF out port	✓
		WiFi-AP antenna jack	2
		USB connector type	USB Type-A, USB Type-C
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	Wi-Fi *	✓
Memory channels	Dual-channel	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
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)
Non-ECC	✓	WLAN controller model	Intel Wi-Fi 6E AX211
Supported memory clock speeds	7600,7400,7200,4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000 MHz	Bluetooth	✓
Supported memory clock speed (max)	7600 MHz	Bluetooth version	5.3
Maximum internal memory *	192 GB	Features	
Unbuffered memory	✓	Motherboard chipset *	Intel Z790 Express
		Audio output channels *	7.1 channels
		PC health monitoring	Fan, Temperature, Voltage, Water cooling
		Component for *	PC
		Motherboard form factor *	ATX
		Motherboard chipset family *	Intel
Storage controllers			
Supported storage drive types	HDD & SSD		
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III		
Number of storage drives supported	10		
RAID support	✓		
RAID levels	0, 1, 5, 10		
Graphics			
Parallel processing technology support *	Not supported		
Maximum resolution	4096 x 2304 pixels		
HDCP	✓		
Internal I/O			
USB 2.0 connectors *	2		
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1		
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1		
Number of SATA III connectors *	6		

Internal I/O		Features	
Front panel audio connector	✓	Windows operating systems supported	Windows 10 x64, Windows 11 x64
Front panel connector	✓	<b>Expansion slots</b>	
ATX Power connector (24-pin)	✓	PCI Express x16 (Gen 3.x) slots	1
CPU fan connector	✓	PCI Express x16 (Gen 4.x) slots	1
EPS power connector (8-pin)	✓	PCI Express x16 (Gen 5.x) slots	1
TPM connector	✓	Number of M.2 (M) slots	4
Thunderbolt headers	2	<b>BIOS</b>	
12V power connector	✓	BIOS type *	UEFI AMI
RGB LED pin header	✓	BIOS memory size	256 Mbit
<b>Rear panel I/O ports</b>		ACPI version	5.0
USB 2.0 ports quantity *	4	Clear CMOS jumper	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	Clear CMOS button	✓
		Desktop Management Interface (DMI) version	2.7
		System Management BIOS (SMBIOS) version	2.7
		<b>Weight &amp; dimensions</b>	
		Width	305 mm
		Depth	244 mm
		<b>Packaging content</b>	
		Cables included	SATA



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