

Gigabyte Z790 AORUS ELITE AX-W motherboard Intel Z790 Express LGA 1700 ATX

Brand : Gigabyte

Product code: Z790 AORUS ELITE AX-W

Product name : Z790 AORUS ELITE AX-W

- Intel® Socket LGA 1700□Support 13th and 12th Gen Series Processors
 - Unparalleled Performance□Twin 16*+1+2 Phases Digital VRM Solution
 - Dual Channel DDR5□4*SMD DIMMs with XMP 3.0 Memory Module Support
 - Next Generation Storage□4*PCIe 4.0 x4 M.2 Connectors
 - Advanced Thermal Design & M.2 Thermal Guard III: To Ensure VRM Power Stability & M.2 SSD Performance
 - EZ-Latch Plus□M.2 Connectors with Quick Release & Screwless Design
 - Fast Networks□2.5GbE LAN & Wi-Fi 6E 802.11ax
 - Extended Connectivity□DP, HDMI, Front USB-C® 10Gb/s, Rear USB-C® 20Gb/s
 - Smart Fan 6□Features Multiple Temperature Sensors, Hybrid Fan Headers with FAN STOP
 - Q-Flash Plus□Update BIOS Without Installing the CPU, Memory and Graphics Card
- 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



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 3.2 Gen 2x2 Type-C ports quantity	1
Processor socket *	LGA 1700	Ethernet LAN (RJ-45) ports *	1
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold	HDMI ports quantity *	1
		HDMI version	2.0
Supported processor sockets	LGA 1700	DisplayPorts quantity	1
		DisplayPort version	1.2
Memory		Headphone outputs	2
Supported memory types *	DDR5-SDRAM	Microphone in	✓
Number of memory slots *	4	S/PDIF out port	✓
Memory slots type	DIMM	WiFi-AP antenna jack	2
Memory channels	Dual-channel	USB connector type	USB Type-A, USB Type-C
ECC	✓	Network	
Non-ECC	✓	Ethernet LAN	✓
Supported memory clock speeds	7600,7400,7200,4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000 MHz	Ethernet interface type	2.5 Gigabit Ethernet
Supported memory clock speed (max)	7600 MHz	Wi-Fi *	✓
Maximum internal memory *	192 GB	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Unbuffered memory	✓	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)
Storage controllers		WLAN controller model	Intel Wi-Fi 6E AX211
Supported storage drive types	HDD & SSD	Bluetooth	✓
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III	Bluetooth version	5.3
Number of storage drives supported	10	Features	
RAID support	✓	Motherboard chipset *	Intel Z790 Express
RAID levels	0, 1, 5, 10	Audio output channels *	7.1 channels
Graphics		PC health monitoring	Fan, Temperature, Voltage, Water cooling
Parallel processing technology support *	Crossfire	Component for *	PC
Maximum resolution	4096 x 2304 pixels	Motherboard form factor *	ATX
HDCP	✓	Motherboard chipset family *	Intel
Internal I/O		Windows operating systems supported	Windows 10 x64, Windows 11 x64
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		Expansion slots	
Front panel audio connector	✓	PCI Express x16 (Gen 3.x) slots	1
Front panel connector	✓	PCI Express x16 (Gen 4.x) slots	1
ATX Power connector (24-pin)	✓	PCI Express x16 (Gen 5.x) slots	1
CPU fan connector	✓	Number of M.2 (M) slots	4
EPS power connector (8-pin)	✓	BIOS	
TPM connector	✓	BIOS type *	UEFI AMI
Thunderbolt headers	2	BIOS memory size	256 Mbit
12V power connector	✓	ACPI version	5.0
RGB LED pin header	✓	Clear CMOS jumper	✓
Rear panel I/O ports		Clear CMOS button	✓
USB 2.0 ports quantity *	4	Desktop Management Interface (DMI) version	2.7
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	System Management BIOS (SMBIOS) version	2.7
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2	Weight & dimensions	
		Width	305 mm
		Depth	244 mm
		Packaging content	
		Cables included	SATA
		Bundled software	Norton Internet Security



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