

## Gigabyte Z790 AORUS XTREME X Motherboard - Supports Intel 14th Gen CPUs, LGA 1700, 24+1+2 phases VRM, up to 8266MHz DDR5 (OC), 1xPCIe 5.0 + 4xPCIe 4.0 M.2, Wi-Fi 7, 10GbE LAN, USB 3.2 Gen 2x2

**Brand :** Gigabyte

**Product code:** Z790 AORUS XTREME X



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- LGA 1700: Supports Intel Core 13th and next-gen processors
  - Digital direct 24+1+2 phases VRM solution
  - Full support up to DDR5-8266
  - 1\*PCIe 5.0 x4 and 4\*PCIe 4.0 x4 M.2 Connectors
  - VRM Thermal Armor Fins-Array & M.2 Thermal Guard XTREME
  - DIY-Friendly Design: Quick Release & Screwless Design for M.2 modules and graphics card
- Intel Z790, 4 x DDR5, 8266 MHz, Wi-Fi 7, 2 x RJ-45, 4 x SATA, E-ATX

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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	WiFi-AP antenna jack	2
Processor socket *	LGA 1700	USB connector type	USB Type-A, USB Type-C
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold	Network	
Maximum number of SMP processors	1	Ethernet LAN	✓
Supported processor sockets	LGA 1700	Ethernet interface type	2.5 Gigabit Ethernet, 10 Gigabit Ethernet
<b>Memory</b>		LAN controller	Aquantia AQC107
Supported memory types *	DDR5-SDRAM	Wi-Fi *	✓
Number of memory slots *	4	Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Memory slots type	DIMM	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 7 (802.11be)
Memory channels	Dual-channel	WLAN controller model	Qualcomm QCNCM865
ECC	✓	Bluetooth	✓
Non-ECC	✓	Bluetooth version	5.3
Supported memory clock speeds MHz	4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600,7800,7900,7950,8000,8200,8266	Features	
Supported memory clock speed (max)	8266 MHz	Motherboard chipset *	Intel Z790 Express
Maximum internal memory *	192 GB	Audio chip	ESS ES9280AC + ESS ES9080
Unbuffered memory	✓	Audio output channels *	7.1 channels
<b>Storage controllers</b>		Product colour	Black
Supported storage drive types	HDD & SSD	PC health monitoring	Fan, Noise, Temperature, Voltage, Water cooling
Supported storage drive interfaces *	M.2, SATA III	Component for *	PC
Number of HDDs supported	4	Motherboard form factor *	Extended ATX
Number of storage drives supported	9	Motherboard chipset family *	Intel
RAID support	✓	Windows operating systems supported	Windows 11 x64
RAID levels	0, 1, 10	Expansion slots	
Graphics		PCI Express x16 (Gen 3.x) slots	1
Parallel processing technology support *	Not supported	PCI Express x16 (Gen 5.x) slots	1
Maximum resolution	5120 x 2880 pixels		
HDCP	✓		
DirectX version	12.0		
Internal I/O			
USB 2.0 connectors *	1		

Internal I/O		Expansion slots	
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	Number of M.2 (M) slots	5
USB 3.2 Gen 2x2 connectors	2	<b>BIOS</b>	
Number of SATA III connectors *	4	BIOS type *	UEFI AMI
Front panel audio connector	✓	BIOS memory size	256 Mbit
Front panel connector	✓	ACPI version	5.0
ATX Power connector (24-pin)	✓	Clear CMOS jumper	✓
Number of EATX power connectors	2	Clear CMOS button	✓
CPU fan connector	✓	Desktop Management Interface (DMI) version	2.7
Number of chassis fan connectors	3	System Management BIOS (SMBIOS) version	2.7
EPS power connector (8-pin)	✓	<b>Logistics data</b>	
TPM connector	✓	Country of origin	Taiwan
Thunderbolt headers	2	Products per shipping (inner) case	1 pc(s)
12V power connector	✓	<b>Battery</b>	
RGB LED pin header	✓	Battery weight	3 g
<b>Rear panel I/O ports</b>		Lithium weight per battery	0.07 g
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	10	Number of battery cells	1
USB 3.2 Gen 2x2 Type-C ports quantity	1	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
Ethernet LAN (RJ-45) ports *	2	Battery type	CR2032
Headphone outputs	1	<b>Packaging data</b>	
Microphone in	✓	Package width	380 mm
S/PDIF out port	✓	Package depth	332 mm
Digital audio optical out	1	Package height	130 mm
Thunderbolt ports quantity	2	Package weight	5.07 kg
		<b>Weight &amp; dimensions</b>	
		Width	305 mm
		Depth	285 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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Publication date: 18-JUN-2024. Prints or copies of Information are only valid on the printed Publication date