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*PCle 5.0 x4 and 4*PCle 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.

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Processor			Rear panel I/O ports	
Processor manufa	acturer *	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	
			Ethernet LAN	✓ 2.5 Gigabit Ethernet, 10 Gigabit
Maximum number of SMP processors		1	Ethernet interface type	Ethernet
1		LGA 1700	LAN controller	Aquantia AQC107
Supported processor sockets		LGA 1700	Wi-Fi *	4
Supported memory types *	DDR5-SDRAM		Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Number of memory slots * Memory slots type Memory channels ECC Non-ECC	DIMM Dual-channel ✓		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)
Supported memory clock speeds	4000,4800,5200,5400,5600,5800,6000, MHz	,6200,6400,6600,6800,7000,7200,7400,7600,7800,7900,7950,8000,8200,8266	WLAN controller model	Qualcomm QCNCM865
(max)	8266 MHz 192 GB		Bluetooth	1
Unbuffered memory	4		Bluetooth version	5.3
Storage control	lers		Features	
Supported storage drive types Supported storage drive interfaces * Number of HDDs supported Number of storage drives supported RAID support RAID levels		4	Motherboard chipset * Audio chip Audio output channels * Product colour PC health monitoring	Intel Z790 Express ESS ES9280AC + ESS ES9080 7.1 channels Black Fan, Noise, Temperature, Voltage, Water cooling
Graphics			Component for *	PC
Parallel processing technology support *		Not supported	Motherboard form factor * Motherboard chipset family *	Extended ATX Intel
Maximum resolution HDCP		5120 x 2880 pixels	Windows operating systems supported	Windows 11 x64
DirectX version 12.0		12.0	Expansion slots	
Internal I/O			PCI Express x16 (Gen 3.x) slots	1
USB 2.0 connectors *		1	PCI Express x16 (Gen 5.x) slots	1





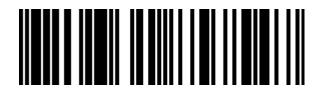
Internal I/O

USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2
USB 3.2 Gen 2x2 connectors	2
Number of SATA III connectors *	4
Front panel audio connector	1
Front panel connector	1
ATX Power connector (24-pin)	-
Number of EATX power connectors	2
CPU fan connector	-
Number of chassis fan connectors	3
EPS power connector (8-pin)	1
TPM connector	-
Thunderbolt headers	2
12V power connector	1
RGB LED pin header	1

Rear panel I/O ports

USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	10
USB 3.2 Gen 2x2 Type-C ports quantity	1
Ethernet LAN (RJ-45) ports *	2
Headphone outputs	1
Microphone in	<
S/PDIF out port	<
Digital audio optical out	1
Thunderbolt ports quantity	2

Expansion slots	
Number of M.2 (M) slots	5
BIOS	
BIOS type * BIOS memory size ACPI version Clear CMOS jumper Clear CMOS button Desktop Management Interface (DMI) version System Management BIOS (SMBIOS) version	UEFI AMI 256 Mbit 5.0 ✓ ✓ 2.7 2.7
Logistics data	
Country of origin Products per shipping (inner) case	Taiwan 1 pc(s)
Battery	
Battery weight Lithium weight per battery Number of battery cells Battery technology Battery type	3 g 0.07 g 1 Lithium-Manganese Dioxide (LiMnO2) CR2032
Packaging data	
Package width Package depth Package height Package weight	380 mm 332 mm 130 mm 5.07 kg
Weight & dimensions	
Width Depth Height	305 mm 285 mm 35 mm
Packaging content	
Cables included Batteries included Antenna included Bundled software	SATA ✓ ✓ Norton® Internet Security (OEM version) LAN bandwidth management software
Technical details	
Warranty period	3 year(s)



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