

## Gigabyte Z790 AORUS XTREME X motherboard Intel Z790 LGA 1700 Extended ATX

**Brand :** Gigabyte

**Product code:** Z790 AORUS XTREME X

**Product name :** Z790 AORUS XTREME X

- Supports Intel® Core™ 13th and next-gen processors
  - Digital twin 24+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 PCIe 5.0 x16 slot & M.2 slots with quick release design
  - UC BIOS User-Centred intuitive UX with Quick Access function
  - Ultra-Fast Storage 5\*M.2 slots, including 1\* PCIe 5.0 x4
  - Efficient Overall Thermal VRM Thermal Armor Fins-Array & M.2 Thermal Guard XTREME
  - Fast Networking 10GbE + 2.5GbE LAN & Wi-Fi 7 with Ultra-high gain antenna
  - Extended Connectivity Dual Thunderbolt 4™, Dual Front USB-C® 20Gb/s
  - DTS:X® Ultra Audio ESS ES9280A DAC and ESS ES9080A with Front ESSential USB DAC Bundled
- Intel Z790, 4 x DDR5, 8266 MHz, Wi-Fi 7, 2 x RJ-45, 4 x SATA, E-ATX



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	10
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 *	2
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	✓
		Thunderbolt ports quantity	2
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 7 (802.11be)
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 7 (802.11be)
Non-ECC	✓	Bluetooth	✓
Supported memory clock speeds	8000, 7950, 7900, 7800, 7600, 7400, 7200, 7000, 6800, 6600, 6400, 6200, 6000, 5800, 5600, 5400, 5200, 4800, 4000 MHz	Bluetooth version	5.3
Supported memory clock speed (max)	8266 MHz	Features	
Maximum internal memory *	192 GB	Motherboard chipset *	Intel Z790
Unbuffered memory	✓	Audio output channels *	7.1 channels
Storage controllers		PC health monitoring	Fan, Temperature, Voltage, Water cooling
Supported storage drive types	HDD & SSD	Component for *	PC
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III	Motherboard form factor *	Extended ATX
Number of storage drives supported	10	Motherboard chipset family *	Intel
RAID support	✓	Windows operating systems supported	Windows 10 x64, Windows 11 x64
RAID levels	0, 1, 5, 10		
Graphics			
Parallel processing technology support *	Crossfire		
Maximum resolution	4096 x 2304 pixels		
HDCP	✓		

Internal I/O		Expansion slots	
USB 2.0 connectors *	1	PCI Express x16 slots	3
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	Number of M.2 (M) slots	5
USB 3.2 Gen 2 (3.1 Gen 2) 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	✓
CPU fan connector	✓	Clear CMOS button	✓
EPS power connector (8-pin)	✓	Desktop Management Interface (DMI) version	2.7
TPM connector	✓	System Management BIOS (SMBIOS) version	2.7
Thunderbolt headers	2	<b>Weight &amp; dimensions</b>	
12V power connector	✓	Width	305 mm
RGB LED pin header	✓	Depth	285 mm
		<b>Packaging content</b>	
		Cables included	SATA
		Bundled software	Norton Internet Security



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