GIGABYTE

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

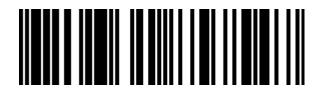Intel Z790, 4 x DDR5, 8266 MHz, Wi-Fi 7, 2 x RJ-45, 4 x SATA, E-ATX

Processor

Processor manufacturer *	Intel
Processor socket *	LGA 1700
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold
Supported processor sockets	LGA 1700

Memory

Supported memory types *	DDR5-SDRAM
Number of memory slots *	4
Memory slots type	DIMM
Memory channels	Dual-channel
ECC	✓
Non-ECC	✓
Supported memory clock speeds	8000, 7950, 7900, 7800, 7600, 7400, 7200, 7000, 6800, 6600, 6400, 6200, 6000, 5800, 5600, 5400, 5200, 4800, 4000 MHz
Supported memory clock speed (max)	8266 MHz
Maximum internal memory *	192 GB
Unbuffered memory	✓

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 *	Crossfire
Maximum resolution	4096 x 2304 pixels
HDCP	✓

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
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

Network

Ethernet LAN	✓
Ethernet interface type	2.5 Gigabit Ethernet
Wi-Fi *	✓
Top Wi-Fi standard	Wi-Fi 7 (802.11be)
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)
Bluetooth	✓
Bluetooth version	5.3

Features

Motherboard chipset *	Intel Z790
Audio output channels *	7.1 channels
PC health monitoring	Fan, Temperature, Voltage, Water cooling
Component for *	PC
Motherboard form factor *	Extended ATX
Motherboard chipset family *	Intel
Windows operating systems supported	Windows 10 x64, Windows 11 x64

Internal I/O

USB 2.0 connectors *	1
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	2
Number of SATA III connectors *	4
Front panel audio connector	✓
Front panel connector	✓
ATX Power connector (24-pin)	✓
CPU fan connector	✓
EPS power connector (8-pin)	✓
TPM connector	✓
Thunderbolt headers	2
12V power connector	✓
RGB LED pin header	✓

Expansion slots

PCI Express x16 slots	3
Number of M.2 (M) slots	5

BIOS

BIOS type *	UEFI AMI
BIOS memory size	256 Mbit
ACPI version	5.0
Clear CMOS jumper	✓
Clear CMOS button	✓
Desktop Management Interface (DMI) version	2.7
System Management BIOS (SMBIOS) version	2.7

Weight & dimensions

Width	305 mm
Depth	285 mm

Packaging content

Cables included	SATA
Bundled software	Norton Internet Security

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