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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

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
Maximum number of SMP processors	1
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	4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600,7800,7900,7950,8000,8200,8266 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, SATA III
Number of HDDs supported	4
Number of storage drives supported	9
RAID support	✔
RAID levels	0, 1, 10

Graphics

Parallel processing technology support *	Not supported
Maximum resolution	5120 x 2880 pixels
HDCP	✔
DirectX version	12.0

Internal I/O

USB 2.0 connectors *	1

Rear panel I/O ports

WiFi-AP antenna jack	2
USB connector type	USB Type-A, USB Type-C

Network

Ethernet LAN	✔
Ethernet interface type	2.5 Gigabit Ethernet, 10 Gigabit Ethernet
LAN controller	Aquantia AQC107
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)
WLAN controller model	Qualcomm QCNCM865
Bluetooth	✔
Bluetooth version	5.3

Features

Motherboard chipset *	Intel Z790 Express
Audio chip	ESS ES9280AC + ESS ES9080
Audio output channels *	7.1 channels
Product colour	Black
PC health monitoring	Fan, Noise, Temperature, Voltage, Water cooling
Component for *	PC
Motherboard form factor *	Extended ATX
Motherboard chipset family *	Intel
Windows operating systems supported	Windows 11 x64

Expansion slots

PCI Express x16 (Gen 3.x) slots	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	✓
Front panel connector	✓
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)	✓
TPM connector	✓
Thunderbolt headers	2
12V power connector	✓
RGB LED pin header	✓

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 *	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

Logistics data

Country of origin	Taiwan
Products per shipping (inner) case	1 pc(s)

Battery

Battery weight	3 g
Lithium weight per battery	0.07 g
Number of battery cells	1
Battery technology	Lithium-Manganese Dioxide (LiMnO2)
Battery type	CR2032

Packaging data

Package width	380 mm
Package depth	332 mm
Package height	130 mm
Package weight	5.07 kg

Weight & dimensions

Width	305 mm
Depth	285 mm
Height	35 mm

Packaging content

Cables included	SATA
Batteries included	✓
Antenna included	✓
Bundled software	Norton® Internet Security (OEM version) LAN bandwidth management software

Technical details

Warranty period	3 year(s)

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