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GIGABYTE Z890 AORUS XTREME AI TOP Motherboard - Supports Intel Core Ultra (Series 2) CPUs, 22+1+2 phases VRM, up to 9500MHz DDR5 (OC), 1xPCIe 5.0 M.2 + 3xPCIe 4.0 M.2, Wi-Fi 7, 10GbE LAN, Thunderbolt 5

Brand : GIGABYTE

Product code: Z890 A XTREME AI TOP

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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

Processor

Processor manufacturer *	Intel
Processor socket *	LGA 1851 (Socket V1)
Compatible processor series *	Intel Core Ultra (Series 2)
Supported processor sockets	LGA 1851
Maximum internal memory supported by processor	256 GB

Memory

Supported memory types *	DDR5-SDRAM
Number of memory slots *	4
Memory slots type	DIMM
Memory channels	Dual-channel
ECC compatibility	ECC & Non-ECC
Supported memory clock speeds	5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600,7800,7900,7950,8000,8200,8266,8400,8600,9500 MHz
Supported memory clock speed (max)	9500 MHz
Maximum internal memory *	256 GB
Unbuffered memory	✓
Maximum internal memory per slot	64 GB

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	8
RAID support	✓
RAID levels	0, 1, 5, 10

Graphics

Parallel processing technology support *	Not supported
Maximum resolution	7680 x 4320 pixels
HDCP	✓
DirectX version	12.0

Internal I/O

USB 2.0 connectors *	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1
USB 3.2 Gen 2x2 connectors	2
Number of SATA III connectors *	4
Front panel connector	✓

Network

Ethernet interface type	10 Gigabit Ethernet
LAN controller	Marvell AQtion AQC113C
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 6E (802.11ax)
WLAN controller model	Intel Wi-Fi 7 BE200
Bluetooth	✓
Bluetooth version	5.4

Features

Motherboard chipset *	Intel Z890
Audio chip	ESS ES9280AC + ESS ES9080
Audio output channels *	2.0 channels
Product colour	Black
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 11 x64

Expansion slots

PCI Express x16 (Gen 4.x) slots	1
PCI Express x16 (Gen 5.x) slots	2
Number of M.2 (M) slots	4
1st M.2 largest key size	25110
1st M.2 highest PCI Express generation	5.0
2nd M.2 largest key size	25110
2nd M.2 highest PCI Express generation	4.0
3rd M.2 largest key size	22110

Internal I/O

ATX Power connector (24-pin)	✓
CPU fan connector	✓
Number of CPU fan connectors	2
Number of chassis fan connectors	3
EPS power connector (8-pin)	✓
Number of EPS power connectors (8-pin)	2
Thunderbolt headers	1
Number of water pump connectors	2
Number of temperature sensor headers	2
Number of noise detection headers	1
RGB LED pin header	✓
Number of RGB LED pin headers	4

Rear panel I/O ports

USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	10
Ethernet LAN (RJ-45) ports *	2
Headphone outputs	1
Microphone in	✓
S/PDIF out port	✓
Thunderbolt ports quantity	2
WiFi-AP antenna jack	2

Network

Ethernet LAN	✓

Expansion slots

3rd M.2 highest PCI Express generation	4.0
4th M.2 largest key size	22110
4th M.2 highest PCI Express generation	4.0

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	386 mm
Package depth	370 mm
Package height	140 mm

Weight & dimensions

Width	304.8 mm
Depth	305 mm
Height	35 mm

Packaging content

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

Technical details

Warranty period	3 year(s)

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