GIGABYTE

GIGABYTE X870E AORUS XTREME AI TOP Motherboard - Supports AMD Ryzen 9000 Series CPUs, 18+2+2 phases VRM, up to 8800MHz DDR5 (OC), 1xPCIe 5.0 M.2 + 3xPCIe 4.0 M.2, WI-FI 7, 10GbE LAN, USB 4



Brand : GIGABYTE

Product code: X870E 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 *	AMD
Processor socket *	Socket AM5
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series
Supported processor sockets	Socket AM5

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	8800,8600,8400,8266,8200,8000,7950,7900,7800,7600,7400,7200,7000,6800,6600,6400,6200,6000,5800,5600,5200,4800,4400 MHz
Supported memory clock speed (max)	8800 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, 10

Graphics

Parallel processing technology support *	Not supported
Maximum resolution	4096 x 2160 pixels
HDCP	✔
DirectX version	12.0

Internal I/O

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

Network

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), Wi-Fi 7 (802.11be)
WLAN controller model	Qualcomm QCNCM865
Bluetooth	✔
Bluetooth version	5.3

Features

Motherboard chipset *	AMD X870E
Audio chip	Realtek ALC1220
Audio output channels *	7.1 channels
Product colour	Black
PC health monitoring	Fan, Temperature, Voltage, Water cooling
Component for *	PC
Motherboard form factor *	Extended ATX
Motherboard chipset family *	AMD
Power source type	ATX
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	22110
2nd M.2 highest PCI Express generation	4.0

Internal I/O	
Front panel audio connector	✔
Front panel connector	✔
ATX Power connector (24-pin)	✔
CPU fan connector	✔
Number of CPU fan connectors	1
Number of chassis fan connectors	8
EPS power connector (8-pin)	✔
Number of EPS power connectors (8-pin)	2
TPM connector	✔
Number of water pump connectors	5
RGB LED pin header	✔
Number of RGB LED pin headers	4

Rear panel I/O ports	
USB 2.0 ports quantity *	2
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	6
USB4 Gen 2x2 ports quantity	2
Ethernet LAN (RJ-45) ports *	2
HDMI ports quantity *	1
HDMI version	2.1
DisplayPort version	1.4
Line-in	✔
Microphone in	✔
S/PDIF out port	✔
WiFi-AP antenna jack	2

Network	
Ethernet LAN	✔
Ethernet interface type	10 Gigabit Ethernet
LAN controller	Marvell AQtion AQC113C

Expansion slots	
3rd M.2 largest key size	22110
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	381 mm
Package depth	311 mm
Package height	107 mm
Package weight	4.5 kg

Weight & dimensions	
Width	305 mm
Depth	269 mm
Height	35 mm

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

Other features	
Weight	3.76 kg

Technical details	
Warranty period	3 year(s)

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Publication date: 21-SEP-2026. Prints or copies of Information are only valid on the printed Publication date