

GIGABYTE X870E AORUS XTREME X3D AI TOP Motherboard - Supports AMD Ryzen 9000 Series CPUs, 24+2+2 phases VRM, up to 9000MHz DDR5 (OC), 2xPCIe 5.0 M.2 + 3xPCIe 4.0 M.2, WI-FI 7, 10GbE LAN, USB 4



Brand : GIGABYTE

Product code: X870E A XTR X 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 technology.

Processor		Network	
Processor manufacturer *	AMD	Ethernet interface type	10 Gigabit Ethernet
Processor socket *	Socket AM5	LAN controller	Realtek RTL8127
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	Wi-Fi *	✓
Supported processor sockets	Socket AM5	Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Memory		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)
Supported memory types *	DDR5-SDRAM	WLAN controller model	MediaTek MT7927
Number of memory slots *	4	Bluetooth	✓
Memory slots type	DIMM	Bluetooth version	5.4
Memory channels	Dual-channel		
ECC compatibility	Non-ECC		
Supported memory clock speeds	9000,8800,8600,8400,8000,7800,7600,7200,7000,6800,6600,6400,6200,6000,5600,5200,4800,4400 MHz		
Supported memory clock speed (max)	9000 MHz		
Maximum internal memory *	256 GB		
Unbuffered memory	✓		
Maximum internal memory per slot	64 GB		
Storage controllers		Features	
Supported storage drive types	HDD & SSD	Motherboard chipset *	AMD X870E
Supported storage drive interfaces *	M.2, SATA III	Audio chip	1 ESS ES9280AC + 2 ESS ES9080
Number of HDDs supported	2	Audio output channels *	7.1 channels
Number of storage drives supported	7	Product colour	Black
RAID support	✓	PC health monitoring	Fan, Temperature, Voltage, Water cooling
RAID levels	0, 1, 5, 10	Component for *	PC
Graphics		Motherboard form factor *	Extended ATX
Parallel processing technology support *	Not supported	Motherboard chipset family *	AMD
Maximum resolution	4096 x 2160 pixels	Cooling type	Passive
HDCP	✓	Power source type	ATX
HDCP version	2.3	Windows operating systems supported	Windows 11 x64
DirectX version	12.0		
Internal I/O		Expansion slots	
USB 2.0 connectors *	1	PCI Express x16 (Gen 4.x) slots	1
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	PCI Express x16 (Gen 5.x) slots	2
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Number of M.2 (M) slots	5
		1st M.2 largest key size	2580
		1st M.2 highest PCI Express generation	5.0
		2nd M.2 largest key size	22110

Internal I/O		Expansion slots	
USB 3.2 Gen 2x2 connectors	1	2nd M.2 highest PCI Express generation	5.0
Number of SATA III connectors *	2	3rd M.2 largest key size	22110
Front panel audio connector	✓	3rd M.2 highest PCI Express generation	4.0
Front panel connector	✓	4th M.2 largest key size	22110
ATX Power connector (24-pin)	✓	4th M.2 highest PCI Express generation	4.0
CPU fan connector	✓	5th M.2 largest key size	2280
Number of CPU fan connectors	2	5th M.2 highest PCI Express generation	4.0
Number of chassis fan connectors	3		
EPS power connector (8-pin)	✓		
Number of EPS power connectors (8-pin)	2		
Number of water pump connectors	3		
Number of temperature sensor headers	2		
RGB LED pin header	✓		
Number of RGB LED pin headers	1		
Rear panel I/O ports		BIOS	
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	8	BIOS type *	UEFI AMI
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1	BIOS memory size	512 Mbit
USB 3.2 Gen 2x2 Type-C ports quantity	1	ACPI version	5.0
USB4 Gen 2x2 ports quantity	2	Clear CMOS button	✓
Ethernet LAN (RJ-45) ports *	2	Desktop Management Interface (DMI) version	2.7
HDMI ports quantity *	1	System Management BIOS (SMBIOS) version	2.7
HDMI version	2.1		
DisplayPort version	1.4		
Line-in	✓		
Microphone in	✓		
S/PDIF out port	✓		
Digital audio optical out	1		
WiFi-AP antenna jack	2		
Network		Logistics data	
Ethernet LAN	✓	Country of origin	Taiwan
		Products per shipping (inner) case	1 pc(s)
Battery		Battery	
		Battery weight	3 g
		Lithium weight per battery	0.07 g
		Number of battery cells	1
		Battery capacity	220 mAh
		Battery technology	Lithium-Manganese Dioxide (LiMnO ₂)
		Battery type	CR2032
Packaging data		Packaging data	
		Package width	387 mm
		Package depth	387 mm
		Package height	167 mm
		Package weight	11.2 kg
Weight & dimensions		Weight & dimensions	
		Width	305 mm
		Depth	285 mm
		Height	35 mm
Packaging content		Packaging content	
		Batteries included	✓
		Antenna included	✓
		Screws included	✓
		Bundled software	Norton® Internet Security (OEM version)
Other features		Other features	
		Weight	8.02 kg
Technical details		Technical details	
		Warranty period	3 year(s)



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