

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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Processor		Network	
Processor manufacturer *	AMD	Wi-Fi *	✓
Processor socket *	Socket AM5	Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	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 processor sockets	Socket AM5	WLAN controller model	Qualcomm QCNCM865
Memory		Bluetooth	✓
Supported memory types *	DDR5-SDRAM	Bluetooth version	5.3
Number of memory slots *	4	Features	
Memory slots type	DIMM	Motherboard chipset *	AMD X870E
Memory channels	Dual-channel	Audio chip	Realtek ALC1220
ECC compatibility	ECC & Non-ECC	Audio output channels *	7.1 channels
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	Product colour	Black
Supported memory clock speed (max)	8800 MHz	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Maximum internal memory *	256 GB	Component for *	PC
Unbuffered memory	✓	Motherboard form factor *	Extended ATX
Maximum internal memory per slot	64 GB	Motherboard chipset family *	AMD
Storage controllers		Power source type	ATX
Supported storage drive types	HDD & SSD	Windows operating systems supported	Windows 11 x64
Supported storage drive interfaces *	M.2, SATA III	Expansion slots	
Number of HDDs supported	4	PCI Express x16 (Gen 4.x) slots	1
Number of storage drives supported	8	PCI Express x16 (Gen 5.x) slots	2
RAID support	✓	Number of M.2 (M) slots	4
RAID levels	0, 1, 10	1st M.2 largest key size	25110
Graphics		1st M.2 highest PCI Express generation	5.0
Parallel processing technology support *	Not supported	2nd M.2 largest key size	22110
Maximum resolution	4096 x 2160 pixels	2nd M.2 highest PCI Express generation	4.0
HDCP	✓	3rd M.2 largest key size	22110
DirectX version	12.0	Internal I/O	
Internal I/O		USB 2.0 connectors *	2
USB 2.0 connectors *	2	USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	USB 3.2 Gen 2x2 connectors	1
USB 3.2 Gen 2x2 connectors	1	Number of SATA III connectors *	4
Number of SATA III connectors *	4	Front panel audio connector	✓
Front panel audio connector	✓	Front panel connector	✓

Internal I/O		Expansion slots	
ATX Power connector (24-pin)	✓	3rd M.2 highest PCI Express generation	4.0
CPU fan connector	✓	4th M.2 largest key size	22110
Number of CPU fan connectors	1	4th M.2 highest PCI Express generation	4.0
Number of chassis fan connectors	8	BIOS	
EPS power connector (8-pin)	✓	BIOS type *	UEFI AMI
Number of EPS power connectors (8-pin)	2	BIOS memory size	256 Mbit
TPM connector	✓	ACPI version	5.0
Number of water pump connectors	5	Clear CMOS jumper	✓
RGB LED pin header	✓	Clear CMOS button	✓
Number of RGB LED pin headers	4	Desktop Management Interface (DMI) version	2.7
Rear panel I/O ports		System Management BIOS (SMBIOS) version	2.7
USB 2.0 ports quantity *	2	Logistics data	
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	6	Country of origin	Taiwan
USB4 Gen 2x2 ports quantity	2	Products per shipping (inner) case	1 pc(s)
Ethernet LAN (RJ-45) ports *	2	Battery	
HDMI ports quantity *	1	Battery weight	3 g
HDMI version	2.1	Lithium weight per battery	0.07 g
DisplayPort version	1.4	Number of battery cells	1
Line-in	✓	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
Microphone in	✓	Battery type	CR2032
S/PDIF out port	✓	Packaging data	
WiFi-AP antenna jack	2	Package width	381 mm
Network		Package depth	311 mm
Ethernet LAN	✓	Package height	107 mm
Ethernet interface type	10 Gigabit Ethernet	Package weight	4.5 kg
LAN controller	Marvell AQtion AQC113C	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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