

ASUS ROG CROSSHAIR X870E EXTREME AMD X870E Socket AM5 Extended ATX

Brand : ASUS

Product code: 90MB1LB0-M0EAY0

Product name : ROG CROSSHAIR X870E EXTREME

ROG CROSSHAIR X870E EXTREME AMD AM5 (Ryzen 9000, E-ATX, 3x PCIe 5.0, 2x PCIe 4.0, DDR 5, WiFi 7, AI Overclocking, PCIe Q-Release, Aura Sync)

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ROG Crosshair X870E Extreme

The ROG Crosshair X870E Extreme is the flagship AMD Ryzen™ 9000 series motherboard, designed for the most discerning users. It provides the ultimate foundation for AM5 CPUs, DDR5 memory, and PCIe® 5.0 components to ensure maximum performance and future-readiness. Its comprehensive connectivity includes USB4®, and the integrated 5-inch LCD offers a unique way to monitor system performance or add a touch of personalized style.

ASUS AI CACHE BOOST

Supercharge your large language model(LLM) workflows with AI Cache Boost. Exclusive to ASUS AMD 800 Series and 600 Series motherboards using AMD Ryzen™ 9000 Series Granite Ridge CPUs, this BIOS feature intelligently enhances cache efficiency, delivering up to 12.75% faster performance for your LLM tasks.



Processor		Network	
Processor manufacturer *	AMD	Ethernet LAN	✓
Processor socket *	Socket AM5	Ethernet interface type	5 Gigabit Ethernet, 10 Gigabit Ethernet
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	Wi-Fi 7 (802.11be)
Supported memory types *	DDR5-SDRAM	Bluetooth	✓
Number of memory slots *	4	Bluetooth version	5.4
Memory slots type	DIMM	Features	
Memory channels	Dual-channel	Motherboard chipset *	AMD X870E
ECC compatibility	ECC & Non-ECC	Audio chip	Realtek ALC4082
Maximum internal memory *	256 GB	Audio output channels *	7.1 channels
Unbuffered memory	✓	Component for *	PC
Storage controllers		Motherboard form factor *	Extended ATX
Supported storage drive types	HDD & SSD	Motherboard chipset family *	AMD
Supported storage drive interfaces *	M.2, SATA III, SlimSAS	Windows operating systems supported	Windows 11
Number of storage drives supported	10	Expansion slots	
RAID support	✓	PCI Express x16 (Gen 4.x) slots	2
RAID levels	0, 1, 5, 10	PCI Express x16 (Gen 5.x) slots	2
Graphics		Number of M.2 (M) slots	5
Parallel processing technology support *	Not supported	1st M.2 largest key size	22110
Internal I/O		1st M.2 highest PCI Express generation	5.0
USB 2.0 connectors *	2	2nd M.2 largest key size	2280

Internal I/O		Expansion slots	
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	2nd M.2 highest PCI Express generation	5.0
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	3rd M.2 largest key size	22110
USB 3.2 Gen 2x2 connectors	1	3rd M.2 highest PCI Express generation	5.0
Number of SATA III connectors *	4	4th M.2 largest key size	22110
Front panel audio connector	✓	4th M.2 highest PCI Express generation	4.0
Front panel connector	✓	5th M.2 largest key size	22110
ATX Power connector (24-pin)	✓	5th M.2 highest PCI Express generation	4.0
CPU fan connector	✓	BIOS	
Number of chassis fan connectors	2	BIOS type *	UEFI AMI
EPS power connector (8-pin)	✓	BIOS memory size	512 Mbit
12V power connector	✓	Packaging data	
RGB LED pin header	✓	Package width	380 mm
Rear panel I/O ports		Package depth	320 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	8	Package height	125 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	2	Package weight	5.66 kg
USB4 Gen 3x2 ports quantity	2	Weight & dimensions	
Ethernet LAN (RJ-45) ports *	2	Width	305 mm
PS/2 ports quantity	1	Depth	277 mm
HDMI ports quantity *	1	Packaging content	
S/PDIF out port	✓	Cables included	SATA
WiFi-AP antenna jack	1	Antenna included	✓
		Drivers included	✓



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