

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)

ASUS ROG CROSSHAIR X870E EXTREME AMD X870E Socket AM5 Extended ATX:

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	✓	Product colour	Black
Storage controllers		Component for *	PC
Supported storage drive types	HDD & SSD	Motherboard form factor *	Extended ATX
Supported storage drive interfaces *	M.2, SATA III, SlimSAS	Motherboard chipset family *	AMD
Number of storage drives supported	10	Windows operating systems supported	Windows 11
RAID support	✓	Expansion slots	
RAID levels	0, 1, 5, 10	PCI Express x16 (Gen 4.x) slots	2
Graphics		PCI Express x16 (Gen 5.x) slots	2
Parallel processing technology support *	Not supported	Number of M.2 (M) slots	5
On-board graphics card	✗	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
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	2nd M.2 highest PCI Express generation	5.0
		3rd M.2 largest key size	22110

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



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Catalog Object Cloud



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