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	
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
Maximum internal memory *	256 GB
Unbuffered memory	✔

Storage controllers	
Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, SATA III, SlimSAS
Number of storage drives supported	10
RAID support	✔
RAID levels	0, 1, 5, 10

Graphics	
Parallel processing technology support *	Not supported

Internal I/O	
USB 2.0 connectors *	2

Network	
Ethernet LAN	✔
Ethernet interface type	5 Gigabit Ethernet, 10 Gigabit Ethernet
Wi-Fi *	✔
Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Wi-Fi standards	Wi-Fi 7 (802.11be)
Bluetooth	✔
Bluetooth version	5.4

Features	
Motherboard chipset *	AMD X870E
Audio chip	Realtek ALC4082
Audio output channels *	7.1 channels
Component for *	PC
Motherboard form factor *	Extended ATX
Motherboard chipset family *	AMD
Windows operating systems supported	Windows 11

Expansion slots	
PCI Express x16 (Gen 4.x) slots	2
PCI Express x16 (Gen 5.x) slots	2
Number of M.2 (M) slots	5
1st M.2 largest key size	22110
1st M.2 highest PCI Express generation	5.0
2nd M.2 largest key size	2280

Internal I/O

USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1
USB 3.2 Gen 2x2 connectors	1
Number of SATA III connectors *	4
Front panel audio connector	✔
Front panel connector	✔
ATX Power connector (24-pin)	✔
CPU fan connector	✔
Number of chassis fan connectors	2
EPS power connector (8-pin)	✔
12V power connector	✔
RGB LED pin header	✔

Rear panel I/O ports

USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	8
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	2
USB4 Gen 3x2 ports quantity	2
Ethernet LAN (RJ-45) ports *	2
PS/2 ports quantity	1
HDMI ports quantity *	1
S/PDIF out port	✔
WiFi-AP antenna jack	1

Expansion slots

2nd M.2 highest PCI Express generation	5.0
3rd M.2 largest key size	22110
3rd M.2 highest PCI Express generation	5.0
4th M.2 largest key size	22110
4th M.2 highest PCI Express generation	4.0
5th M.2 largest key size	22110
5th M.2 highest PCI Express generation	4.0

BIOS

BIOS type *	UEFI AMI
BIOS memory size	512 Mbit

Packaging data

Package width	380 mm
Package depth	320 mm
Package height	125 mm
Package weight	5.66 kg

Weight & dimensions

Width	305 mm
Depth	277 mm

Packaging content

Cables included	SATA
Antenna included	✔
Drivers included	✔

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