

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.



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*Ürününüzü kaydetmek için QR kodu okutunuz.

Processor		Expansion slots	
Processor manufacturer *	AMD	PCI Express x16 (Gen 4.x) slots	2
Processor socket *	Socket AM5	PCI Express x16 (Gen 5.x) slots	2
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	Number of M.2 (M) slots	5
		1st M.2 largest key size	22110
Supported processor sockets	Socket AM5	1st M.2 highest PCI Express generation	5.0
		2nd M.2 largest key size	2280
Memory		2nd M.2 highest PCI Express generation	5.0
Supported memory types *	DDR5-SDRAM	3rd M.2 largest key size	22110
Number of memory slots *	4	3rd M.2 highest PCI Express generation	5.0
Memory slots type	DIMM	4th M.2 largest key size	22110
Memory channels	Dual-channel	4th M.2 highest PCI Express generation	4.0
ECC compatibility	ECC & Non-ECC	5th M.2 largest key size	22110
Maximum internal memory *	256 GB	5th M.2 highest PCI Express generation	4.0
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		
On-board graphics card	✘		
Internal I/O			
USB 2.0 connectors *	2		
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2		
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1		

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

Internal I/O		Packaging content	
USB 3.2 Gen 2x2 connectors	1	Cables included	SATA
Number of SATA III connectors *	4	Antenna included	✓
Front panel audio connector	✓	Drivers included	✓
Front panel connector	✓	Other features ROG SupremeFX 7.1 Surround Sound High Definition Audio CODEC ALC4082* - Impedance sense for front and rear headphone outputs - Supports: Jack-detection, Multi-streaming, Front Panel MIC Jack-retasking - High quality 120 dB SNR stereo playback output and 110 dB SNR recording input - Supports up to 32-Bit/384 kHz playback on front panel Audio Features - SupremeFX Shielding Technology - ESS® ES9219 QUAD DAC - LED-illuminated audio jacks - Rear optical S/PDIF out port - Premium audio capacitors * A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output. ** The LINE OUT port on the rear panel does not support spatial audio. If you wish to use spatial audio, make sure to connect your audio output device to the audio jack on the front panel of your chassis or use a USB interface audio device. Supports up to 5 x M.2 slots and 1 x SlimSAS connector and 4 x SATA 6Gb/s ports* AMD Ryzen™ 9000 & 7000 Series Desktop Processors M.2_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 5.0 x4 mode) M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode)** M.2_3 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 5.0 x4 mode)** AMD Ryzen™ 8000 Series Desktop Processors M.2_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode) M.2_2 slot (Key M), type 2242/2260/2280 (Not supports) M.2_3 slot (Key M), type 2242/2260/2280/22110 (Not supports) AMD X870E Chipset DIMM.2_1 slot (Key M) via ROG Q-DIMM.2, type 2230/2242/2260/2280/22110 (supports PCIe 4.0 x4 mode) DIMM.2_2 slot (Key M) via ROG Q-DIMM.2, type 2230/2242/2260/2280/22110 (supports PCIe 4.0 x4 mode) SlimSAS connector supports PCIe 4.0 x4 mode via an SFF-8654 adapter cable. The cable is purchased separately. 4 x SATA 6Gb/s ports * Specifications vary by CPU types. ** When M.2_2 is enabled, but M.2_3 is not in use, PCIe16_1 will run in x8 mode and PCIe16_2 will be disabled. ** When M.2_3 is enabled, but M.2_2 is not in use, PCIe16_1 will run in x8 mode and PCIe16_2 will run in x4 mode. ** When both M.2_2 and M.2_3 are enabled, PCIe16_1 will run in x8 mode and PCIe16_2 will be disabled.	
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		Audio output	
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		
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		Special features	
Motherboard chipset *	AMD X870E		
Audio chip	Realtek ALC4082		
Audio output channels *	7.1 channels		
Product colour	Black		
Component for *	PC		
Motherboard form factor *	Extended ATX		
Motherboard chipset family *	AMD		
Windows operating systems supported	Windows 11		

Other features	
Other features	4 x DIMM slots, max. 256GB, DDR5 Supports up to 8200+MT/s(OC) with Ryzen™ 9000 Series Processors, 9000+MT/s(OC) with Ryzen™ 8000 Series Processors, 8000+MT/s(OC) with Ryzen™ 7000 Series Processors, ECC and Non-ECC, Un-buffered DIMM* Dual Channel Memory Architecture Supports AMD Extended Profiles for Overclocking (EXPO™) ASUS Enhanced Memory Profile (AEMP) NitroPath DRAM Technology *Supported memory types, data rate (speed), and number of DRAM modules vary depending on the CPU and memory configuration, for more information please refer to CPU/Memory Support list under theSupport tab of product information site or visit https://www.asus.com/support/download-center/. * Non-ECC, un-buffered DDR5 memory supports On-Die ECC function.
Graphics output	1 x HDMI™ port** 2 x USB4® (40Gbps) ports support USB Type-C® display outputs*** * Graphics specifications may vary between CPU types. Please refer to AMD CPU specifications. ** Supports 4K@60Hz as specified in HDMI 2.1. *** Supports max. 4K@60Hz as specified in DisplayPort 1.4a **** VGA resolution support depends on processors' or graphic cards' resolution.



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Catalog Object Cloud



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