

ASUS ROG STRIX X870E-H GAMING WIFI7 AMD X870E Socket AM5 ATX

Brand : ASUS

Product code: 90MB1M90-M0AAY0

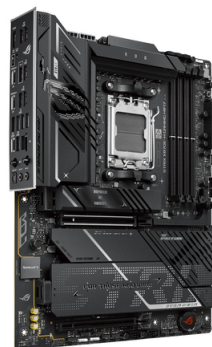
Product name : ROG STRIX X870E-H GAMING WIFI7

AMD X870E, 4 x DIMM slots, max. 256GB, DDR5

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ROG STRIX X870E-H GAMING WIFI7

Transform your gaming experience with the ROG STRIX X870E-H GAMING WIFI7 motherboard. Engineered to dominate with AMD Ryzen™ 9000 Series Desktop Processors, this ATX powerhouse features cutting-edge power design and AI-enhanced solutions. With PCIe 5.0 x16 slots, dual USB4® Type-C ports, and WiFi 7, it delivers advanced connectivity. DIY-friendly features like M.2 Q-Release on all four M.2 slots and PCIe Slot Q-Release make building and upgrades effortless. Unleash your system's full potential with the ROG STRIX X870E-H GAMING WIFI7.



Processor		Features	
Processor manufacturer *	AMD	Motherboard chipset *	AMD X870E
Processor socket *	Socket AM5	Audio chip	Realtek ALC1220P
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	Audio output channels *	7.1 channels
		Product colour	Black
Supported processor sockets	Socket AM5	Component for *	PC
Memory		Motherboard form factor *	ATX
Supported memory types *	DDR5-SDRAM	Motherboard chipset family *	AMD
Number of memory slots *	4	Cooling type	Passive
Memory slots type	DIMM	Windows operating systems supported	Windows 11
Memory channels	Dual-channel	Expansion slots	
ECC compatibility	Non-ECC	PCI Express x16 (Gen 4.x) slots	1
Maximum internal memory *	256 GB	PCI Express x16 (Gen 5.x) slots	1
Unbuffered memory	✓	Number of M.2 (M) slots	4
Storage controllers		1st M.2 largest key size	2280
Supported storage drive types	HDD & SSD	1st M.2 highest PCI Express generation	5.0
Supported storage drive interfaces *	M.2, SATA III	2nd M.2 largest key size	22110
Number of HDDs supported	4	2nd M.2 highest PCI Express generation	5.0
Number of storage drives supported	8	3rd M.2 largest key size	2280
RAID support	✓	3rd M.2 highest PCI Express generation	4.0
RAID levels	0, 1, 10, 5	4th M.2 largest key size	2280
Graphics		4th M.2 highest PCI Express generation	4.0
Parallel processing technology support *	Not supported		

Graphics		BIOS	
On-board graphics card	✗	BIOS type *	UEFI AMI
Internal I/O		BIOS memory size	256 Mbit
USB 2.0 connectors *	2	Packaging data	
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	Package width	353 mm
USB 3.2 Gen 2x2 connectors	1	Package depth	273 mm
Number of SATA III connectors *	4	Package height	68 mm
Front panel audio connector	✓	Package weight	2.07 kg
Front panel connector	✓	Weight & dimensions	
ATX Power connector (24-pin)	✓	Width	305 mm
CPU fan connector	✓	Depth	244 mm
Number of CPU fan connectors	2	Packaging content	
Number of chassis fan connectors	5	Cables included	SATA
Chassis intrusion connector	✓	Antenna included	✓
EPS power connector (8-pin)	✓	Other features	
Number of EPS power connectors (8-pin)	2	Audio output	Realtek ALC1220P 7.1 Surround Sound High Definition Audio CODEC* - Impedance sense for front and rear headphone outputs - Internal audio Amplifier to enhance the highest quality sound for headphone and speakers - Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking - High quality 120 dB SNR stereo playback output and 113 dB SNR recording input (Line-in) - Supports up to 32-Bit/192 kHz playback* Audio Features - SupremeFX Shielding Technology - Savitech SV3H712 AMP - Rear optical S/PDIF out port - Premium audio capacitors - Audio cover * 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 4 x M.2 slots and 4 x SATA 6Gb/s ports AMD Ryzen™ 9000 & 7000 Series Desktop Processors M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode) M.2_2 slot (Key M), type 2280/22110 (supports PCIe 5.0 x4 mode)* AMD Ryzen™ 8000 Series Desktop Processors* M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4/x2 mode) M.2_2 slot (Key M), type 2280/22110 (Not supports)** AMD X870E Chipset M.2_3 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode) M.2_4 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode) 4 x SATA 6Gb/s ports * M.2_2 shares bandwidth with PCIe16(G5). When M.2_2 is occupied with SSD device, PCIe16(G5) will run x8 only. ** M.2_2 will be disabled when using AMD Ryzen™ 8000 Series Desktop Processors.
12V power connector	✓		
Number of water pump connectors	1		
Number of temperature sensor headers	1		
RGB LED pin header	✓		
Number of RGB LED pin headers	3		
Rear panel I/O ports			
USB 2.0 ports quantity *	2		
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	6		
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3		
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1		
USB4 Gen 3x2 ports quantity	2		
Ethernet LAN (RJ-45) ports *	1		
HDMI ports quantity *	1		
Microphone in	✓		
S/PDIF out port	✓		
WiFi-AP antenna jack	1		
Network			
Ethernet LAN	✓	Special features	
Ethernet interface type	5 Gigabit Ethernet		
Wi-Fi *	✓		
Top Wi-Fi standard	Wi-Fi 7 (802.11be)		
Wi-Fi standards	Wi-Fi 7 (802.11be)		
WLAN controller model	Realtek RTL8922AE		
Bluetooth	✓		
Bluetooth version	5.4		

Other features	
Other features	4 x DIMM slots, max. 256GB, DDR5 Supports up to 8000+MT/s(OC) with Ryzen™ 9000 & 8000 & 7000 Series Processors Dual channel memory architecture Supports AMD Extended Profiles for Overclocking (EXPO™) Supports DIMM Fit / DIMM Fit Pro ASUS Enhanced Memory Profile (AEMP) * 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 the Support tab of product information site or visit https://www.asus.com/support/download-center/. Adjustments will be made based on the specifications of mass-produced memory products available on the market. ** 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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