

ASUS ROG STRIX B850-E GAMING WIFI AMD B850 Socket AM5 ATX

Brand : ASUS

Product code: 90MB1J60-M0AAY0

Product name : ROG STRIX B850-E GAMING WIFI

AMD B850, AM5, 4 x DIMM slots, max. 256GB, DDR5, Wi-Fi 7, Bluetooth 5.4, Realtek 5Gb Ethernet, 256 Mb Flash ROM, UEFI AMI BIOS, ATX

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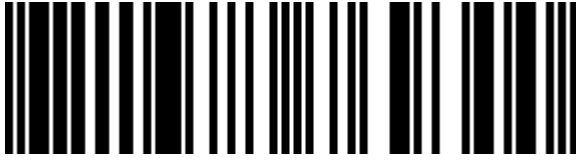
The ROG Strix B850-E Gaming WiFi is engineered to harness the full potential of AMD Ryzen™ 9000 Series processors. Featuring PCIe® 5.0 support, AI Overclocking, AI Networking II, and AEMP, setup is streamlined while performance is maximized. One USB4® Type-C port and WiFi 7 with Realtek 5Gb Ethernet ensure top-tier connectivity, while robust heatsinks keep M.2 drives cool under heavy loads. This motherboard not only meets the demands of gaming and professional applications but also delivers the power and connectivity essential for advanced AI PC applications.



Processor		Network	
Processor manufacturer *	AMD	Bluetooth	✓
Processor socket *	Socket AM5	Bluetooth version	5.4
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	Features	
Supported processor sockets	Socket AM5	Motherboard chipset *	AMD B850
Memory		Audio chip	Realtek ALC4080
Supported memory types *	DDR5-SDRAM	Audio output channels *	7.1 channels
Number of memory slots *	4	Product colour	Black
Memory slots type	DIMM	Component for *	PC
Memory channels	Dual-channel	Motherboard form factor *	ATX
ECC compatibility	ECC & Non-ECC	Motherboard chipset family *	AMD
Supported memory clock speed (max)	8000 MHz	Power source type	ATX
Maximum internal memory *	256 GB	Windows operating systems supported	Windows 11
Unbuffered memory	✓	Expansion slots	
Storage controllers		PCI Express x16 (Gen 4.x) slots	1
Supported storage drive types	HDD & SSD	Number of M.2 (M) slots	5
Supported storage drive interfaces *	M.2, SATA III	1st M.2 largest key size	2280
Number of HDDs supported	4	1st M.2 highest PCI Express generation	5.0
Number of storage drives supported	9	2nd M.2 largest key size	22110
RAID support	✓	2nd M.2 highest PCI Express generation	5.0
RAID levels	0, 1, 5, 10	3rd M.2 largest key size	2280
Graphics		3rd M.2 highest PCI Express generation	5.0
Parallel processing technology support *	Not supported	4th M.2 largest key size	2280
Maximum resolution	7680 x 4320 pixels	4th M.2 highest PCI Express generation	4.0
		5th M.2 largest key size	2280

Internal I/O		Expansion slots	
USB 2.0 connectors *	2	5th M.2 highest PCI Express generation	4.0
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	BIOS	
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	BIOS type *	UEFI AMI
Number of SATA III connectors *	4	BIOS memory size	256 Mbit
Front panel audio connector	✓	Clear CMOS button	✓
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	Other features	
Number of chassis fan connectors	5	Audio output	ROG SupremeFX 7.1 Surround Sound High Definition Audio CODEC ALC4080* - 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 - Savitech SV3H712 AMP - Gold-plated audio jacks - Rear optical S/PDIF out port - Premium audio capacitors - Audio cover * 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. Total supports 5 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 2242/2260/2280/22110 (supports PCIe 5.0 x4 mode)* M.2_3 slot (Key M), type 2280 (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 mode) M.2_2 slot (Key M), type 2242/2260/2280/22110 (Not supports)** M.2_3 slot (Key M), type 2280 (Not supports)*** AMD B850 Chipset M.2_4 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)*** M.2_5 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode) ASMedia ASM1061 Controller 4 x SATA 6Gb/s ports * When either M.2_2 or M.2_3 slot is operating, PCIe16_1 will run x8. ** M.2_2 and M.2_3 slot will be disabled while using the AMD Ryzen™ 8000 Series Desktop Processors. *** M.2_4 slot shares bandwidth with PCIe16(G4). When PCIe16(G4) slot is operating, M.2_4 will be disabled. AMD RAIDXpert2 Technology for NVMe M.2 Device only Ryzen™ 9000 Series Processors: RAID 0/1/5/10 Ryzen™ 8000 Series Processors: RAID 0/1 Ryzen™ 7000 Series Processors: RAID 0/1/10
EPS power connector (8-pin)	✓		
Number of EPS power connectors (8-pin)	2		
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 *	4		
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	6		
USB 3.2 Gen 2x2 Type-C ports quantity	1		
USB4 Gen 3x2 ports quantity	1		
Ethernet LAN (RJ-45) ports *	1		
HDMI ports quantity *	1		
HDMI version	2.1		
DisplayPorts quantity	1		
DisplayPort version	1.4		
Headphone outputs	1		
Line-in	✓		
S/PDIF out port	✓		
Digital audio optical out	1		
WiFi-AP antenna jack	2		
Network			
Ethernet LAN	✓		
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)		
		Special features	

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, ECC and Non-ECC, Un-buffered DIMM* Dual channel memory architecture Supports AMD Extended Profiles for Overclocking (EXPO™) 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/. **Non-ECC, un-buffered DDR5 memory supports On-Die ECC function.
Graphics output	1 x DisplayPort* 1 x HDMI™ port** 1 x USB4® (40Gbps) port supports USB Type-C® display outputs*** - Graphics specifications may vary between CPU types. Please refer to AMD CPU specifications. * Supports max. 8K@30Hz as specified in DisplayPort 1.4 ** Supports 4K@60Hz as specified in HDMI 2.1 *** Supports max. 4K@60Hz from ASMedia ASM4241 controller 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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