

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

Brand : ASUS

Product code: 90MB1J70-M0AAY0

Product name : ROG STRIX B850-F GAMING WIFI

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

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ROG STRIX B850-F gaming wifi

The ROG Strix B850-F Gaming WiFi is built to dominate with AMD Ryzen™ 9000 Series Desktop Processors. Its advanced power design and AI solutions ensure peak performance. In addition, the total support of 19 USB ports including USB 20Gbps, as well as WiFi 7 and 2.5Gbps ethernet, provides cutting-edge connectivity. This motherboard delivers the power and speed essential for elite gaming and the demands of advanced AI PC applications.



Processor		Rear panel I/O ports	
Processor manufacturer *	AMD	WiFi-AP antenna jack	2
Processor socket *	Socket AM5	Network	
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	Ethernet LAN	✓
Supported processor sockets	Socket AM5	Ethernet interface type	2.5 Gigabit Ethernet
Memory		Wi-Fi *	✓
Supported memory types *	DDR5-SDRAM	Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Number of memory slots *	4	Wi-Fi standards	Wi-Fi 7 (802.11be)
Memory slots type	DIMM	Bluetooth	✓
Memory channels	Dual-channel	Bluetooth version	5.4
ECC compatibility	ECC & Non-ECC	Features	
Supported memory clock speed (max)	8000 MHz	Motherboard chipset *	AMD B850
Maximum internal memory *	256 GB	Audio chip	Realtek ALC4080
Unbuffered memory	✓	Audio output channels *	7.1 channels
Storage controllers		Product colour	Black
Supported storage drive types	HDD & SSD	Component for *	PC
Supported storage drive interfaces *	M.2, SATA III	Motherboard form factor *	ATX
Number of HDDs supported	2	Motherboard chipset family *	AMD
Number of storage drives supported	6	Power source type	ATX
RAID support	✓	Windows operating systems supported	Windows 11
RAID levels	0, 1, 5, 10	Expansion slots	
		PCI Express x16 (Gen 4.x) slots	1
		Number of M.2 (M) slots	4

Graphics		Expansion slots	
Parallel processing technology support *	Not supported	1st M.2 largest key size	2280
On-board graphics card	✗	1st M.2 highest PCI Express generation	5.0
Maximum resolution	7680 x 4320 pixels	2nd M.2 largest key size	22110
Internal I/O		2nd M.2 highest PCI Express generation	5.0
USB 2.0 connectors *	2	3rd M.2 largest key size	2280
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	3rd M.2 highest PCI Express generation	4.0
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	4th M.2 largest key size	2280
Number of SATA III connectors *	2	4th M.2 highest PCI Express generation	4.0
Front panel audio connector	✓	BIOS	
Front panel connector	✓	BIOS type *	UEFI AMI
ATX Power connector (24-pin)	✓	BIOS memory size	256 Mbit
CPU fan connector	✓	Clear CMOS button	✓
Number of CPU fan connectors	2	Weight & dimensions	
Number of chassis fan connectors	4	Width	305 mm
EPS power connector (8-pin)	✓	Depth	244 mm
Number of EPS power connectors (8-pin)	2	Other features	
Thunderbolt headers	1	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 - 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 4 x M.2 slots and 2 x SATA 6Gb/s ports AMD Ryzen™ 7000 & 9000 Series Desktop Processors M.2_1 (Key M), type 2242/2260/2280 (supports PCIe 5.0x4 mode) M.2_2 (Key M), type 2280/22110 (supports PCIe 5.0 x4 mode) AMD Ryzen™ 8000 Series Desktop Processors M.2_1 (Key M), type 2242/2260/2280 (supports PCIe 4.0x4 mode) M.2_2 (Key M), type 2280/22110 (supports PCIe 4.0 x4/x2 mode)* AMD B850 Chipset M.2_3 (Key M), type 2280 (supports PCIe 4.0 x4)** M.2_4 (Key M), type 2280 (supports PCIe 4.0 x4) 2 x SATA 6Gb/s ports * Specifications vary by CPU types. ** M.2_3 slot shares bandwidth with PCIe16(G4). When PCIe16(G4) slot is operating, M.2_3 will be disabled. AMD RAIDXpert2 Technology Ryzen™ 9000 Series Processors: RAID 0/1/5/10 Ryzen™ 8000 Series Processors: RAID 0/1 Ryzen™ 7000 Series Processors: RAID 0/1/10
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 1 (3.1 Gen 1) Type-A ports quantity *	4		
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2		
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1		
USB 3.2 Gen 2x2 Type-C 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		
		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** - 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 *** VGA resolution support depends on processors' or graphic cards' resolution.



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