

ASUS TUF GAMING B850I WIFI NEO AMD B850 Socket AM5 mini ITX

Brand : ASUS

Product code: 90MB1PI0-M0EAY0

Product name : TUF GAMING B850I WIFI NEO

TUF GAMING B850I WIFI NEO AMD B850 Mini-ITX motherboard (8+2+1 80-A DrMOS power stages, DDR5, PCIe 5.0 capable, two M.2 slots, Wi-Fi 6E, Realtek 2.5 Gb Ethernet, HDMI, DisplayPort, up to 20 Gbps Type-C rear & USB 10 Gbps Type-C front, Clear CMOS button, BIOS FlashBack, 32 MB BIOS, Aura Sync)

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ASUS TUF GAMING B850I WIFI NEO brings TUF GAMING performance to the Mini-ITX form factor for the first time. Designed for the latest AMD Ryzen™ processors, it features a premium 10-layer server-grade circuit board with 2-ounce low-loss copper power planes for enhanced signal integrity and stable power delivery. Built with military-grade components, durable architectures, and a balanced power solution, this compact motherboard delivers the rock-solid reliability, speed and connectivity that gaming and advanced AI PC applications demand.



Processor		Rear panel I/O ports	
Processor manufacturer *	AMD	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2
Processor socket *	Socket AM5	USB 3.2 Gen 2x2 Type-C ports quantity	1
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	Ethernet LAN (RJ-45) ports *	1
Supported processor sockets	Socket AM5	HDMI ports quantity *	1
Memory		HDMI version	2.1
Supported memory types *	DDR5-SDRAM	DisplayPorts quantity	1
Number of memory slots *	2	DisplayPort version	1.4
Memory slots type	DIMM	Headphone outputs	1
Memory channels	Dual-channel	Line-in	✓
ECC compatibility	ECC & Non-ECC	Microphone in	✓
Supported memory clock speed (max)	9600 MHz	WiFi-AP antenna jack	2
Maximum internal memory *	128 GB	Network	
Unbuffered memory	✓	Ethernet LAN	✓
Maximum internal memory per slot	64 GB	Ethernet interface type	2.5 Gigabit Ethernet
Storage controllers		Wi-Fi *	✓
Supported storage drive types	HDD & SSD	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Supported storage drive interfaces *	M.2, PCI Express 4.0, PCI Express 5.0, SATA III	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Number of HDDs supported	2	Bluetooth	✓
Number of storage drives supported	4	Features	
RAID support	✓	Motherboard chipset *	AMD B850
RAID levels	0, 1, 5, 10	Audio output channels *	7.1 channels
Graphics		Product colour	Black
Parallel processing technology support *	Not supported	Component for *	PC
Maximum resolution	7680 x 4320 pixels	Motherboard form factor *	mini ITX
		Motherboard chipset family *	AMD
		Cooling type	Passive

Internal I/O		Features	
USB 2.0 connectors *	1	Power source type	ATX
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	Windows operating systems supported	Windows 11
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Expansion slots	
Number of SATA III connectors *	2	PCI Express x16 (Gen 5.x) slots	1
Front panel audio connector	✓	Number of M.2 (M) slots	2
Front panel connector	✓	1st M.2 largest key size	2280
ATX Power connector (24-pin)	✓	1st M.2 highest PCI Express generation	5.0
CPU fan connector	✓	2nd M.2 largest key size	2280
Number of CPU fan connectors	1	2nd M.2 highest PCI Express generation	4.0
Number of chassis fan connectors	2	BIOS	
Chassis intrusion connector	✓	BIOS type *	UEFI AMI
EPS power connector (8-pin)	✓	BIOS memory size	256 Mbit
Number of EPS power connectors (8-pin)	1	BIOS flashback button	✓
12V power connector	✓	Packaging data	
Number of water pump connectors	1	Package width	219 mm
RGB LED pin header	✓	Package depth	277 mm
Number of RGB LED pin headers	2	Package height	107 mm
Rear panel I/O ports		Package weight	1.32 kg
USB 2.0 ports quantity *	2	Weight & dimensions	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	Width	170 mm
		Depth	170 mm
		Height	44 mm
		Packaging content	
		Cables included	SATA
		Antenna included	✓
		Screws included	✓
		Other features	
		Weight	720 g
		Quick installation guide	✓



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Catalog Object Cloud



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