

ASUS TUF GAMING B650E-E WIFI AMD B650 Socket AM5 ATX

Brand : ASUS

Product code: 90MB1LT0-M0EAY0

Product name : TUF GAMING B650E-E WIFI

TUF GAMING B650E-E WIFI AMD AM5 (ATX, Ryzen 9000, DDR5, PCIe 5.0, WiFi 6E, PCIe Q-Release, Aura Sync)

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TUF GAMING B650E-E WIFI

ASUS TUF GAMING B650E-E WIFI takes all the essential elements of the latest AM5 Socket for AMD Ryzen™ Desktop Processors and combines them with game-ready features and proven durability. Engineered with military-grade components, an upgraded power solution and a comprehensive cooling system, this motherboard goes beyond expectations with rock-solid and stable performance for marathon gaming. TUF GAMING motherboards also undergo rigorous endurance testing to ensure that they can handle conditions where others may fail. Aesthetically, this model incorporates rugged off-black and geometric design elements to reflect the dependability and stability that defines the TUF GAMING series. This platform delivers the power and connectivity that 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 *	1
Processor socket *	Socket AM5	USB 3.2 Gen 2 (3.1 Gen 2) 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		DisplayPorts quantity	1
Supported memory types *	DDR5-SDRAM	WiFi-AP antenna jack	1
Number of memory slots *	4	Network	
Memory slots type	DIMM	Ethernet LAN	✓
Memory channels	Dual-channel	Ethernet interface type	2.5 Gigabit Ethernet
ECC compatibility	ECC & Non-ECC	Wi-Fi *	✓
Maximum internal memory *	256 GB	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Unbuffered memory	✓	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Storage controllers		Bluetooth	✓
Supported storage drive types	HDD & SSD	Bluetooth version	5.3
Supported storage drive interfaces *	M.2, SATA III	Features	
Number of HDDs supported	4	Motherboard chipset *	AMD B650
Number of storage drives supported	7	Audio output channels *	7.1 channels
RAID support	✓	Component for *	PC
RAID levels	0, 1, 5, 10	Motherboard form factor *	ATX
Graphics		Motherboard chipset family *	AMD
Parallel processing technology support *	Not supported	Windows operating systems supported	Windows 10 x64, Windows 11
Internal I/O		Expansion slots	
USB 2.0 connectors *	2	PCI Express x1 (Gen 4.x) slots	1
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	PCI Express x16 (Gen 4.x) slots	1
		PCI Express x16 (Gen 5.x) slots	1

Internal I/O		Expansion slots	
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Number of M.2 (M) slots	3
Number of SATA III connectors *	4	1st M.2 largest key size	2280
S/PDIF out connector	✓	1st M.2 highest PCI Express generation	5.0
Front panel audio connector	✓	2nd M.2 largest key size	2280
Front panel connector	✓	2nd M.2 highest PCI Express generation	4.0
ATX Power connector (24-pin)	✓	3rd M.2 largest key size	22110
CPU fan connector	✓	3rd M.2 highest PCI Express generation	4.0
Number of chassis fan connectors	4	BIOS	
Chassis intrusion connector	✓	BIOS type *	UEFI AMI
Peripheral (Molex) power connectors (4-pin)	1	BIOS memory size	256 Mbit
EPS power connector (8-pin)	✓	Packaging data	
Number of COM connectors	1	Package width	353 mm
12V power connector	✓	Package depth	273 mm
RGB LED pin header	✓	Package height	68 mm
Number of RGB LED pin headers	3	Package weight	1.78 kg
Rear panel I/O ports		Weight & dimensions	
USB 2.0 ports quantity *	3	Width	305 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	Depth	244 mm
		Packaging content	
		Cables included	SATA
		Antenna included	✓
		Screws included	✓



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