

# ASUS TUF GAMING B650E-PLUS WIFI AMD B650 Socket AM5 ATX

**Brand :** ASUS **Product code:** 90MB1M20-M0EAY0

**Product name :** TUF GAMING B650E-PLUS WIFI

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

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**TUF GAMING B650E-PLUS WIFI**

ASUS TUF GAMING B650E-PLUS 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	Ethernet LAN (RJ-45) ports *	1
Processor socket *	Socket AM5	HDMI ports quantity *	1
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	DisplayPorts quantity	1
		WiFi-AP antenna jack	1
Supported processor sockets	Socket AM5	Network	
Memory		Ethernet LAN	✓
Supported memory types *	DDR5-SDRAM	Ethernet interface type	2.5 Gigabit Ethernet
Number of memory slots *	4	Wi-Fi *	✓
Memory slots type	DIMM	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Memory channels	Dual-channel	Wi-Fi standards	Wi-Fi 6E (802.11ax)
ECC compatibility	ECC & Non-ECC	Bluetooth	✓
Maximum internal memory *	256 GB	Bluetooth version	5.3
Unbuffered memory	✓	Features	
Storage controllers		Motherboard chipset *	AMD B650
Supported storage drive types	HDD & SSD	Audio chip	Realtek ALC1220P
Supported storage drive interfaces *	M.2, SATA III	Audio output channels *	7.1 channels
Number of HDDs supported	4	Component for *	PC
Number of storage drives supported	7	Motherboard form factor *	ATX
RAID support	✓	Motherboard chipset family *	AMD
RAID levels	0, 1, 5, 10	Windows operating systems supported	Windows 10 x64, Windows 11
Graphics		Expansion slots	
Parallel processing technology support *	Not supported	PCI Express x1 (Gen 4.x) slots	2
Internal I/O		PCI Express x16 (Gen 4.x) slots	1
USB 2.0 connectors *	2	PCI Express x16 (Gen 5.x) slots	1
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	Number of M.2 (M) slots	3
		1st M.2 largest key size	2280

Internal I/O		Expansion slots	
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	1st M.2 highest PCI Express generation	5.0
Number of SATA III connectors *	4	2nd M.2 largest key size	22110
Front panel audio connector	✓	2nd M.2 highest PCI Express generation	4.0
Front panel connector	✓	3rd M.2 largest key size	2280
ATX Power connector (24-pin)	✓	3rd M.2 highest PCI Express generation	4.0
CPU fan connector	✓	<b>BIOS</b>	
Number of CPU fan connectors	1	BIOS type *	UEFI AMI
Number of chassis fan connectors	4	BIOS memory size	256 Mbit
Chassis intrusion connector	✓	<b>Packaging data</b>	
EPS power connector (8-pin)	✓	Package width	353 mm
Number of COM connectors	1	Package depth	273 mm
Thunderbolt headers	1	Package height	68 mm
12V power connector	✓	Package weight	1.39 kg
Rear panel I/O ports		<b>Weight &amp; dimensions</b>	
USB 2.0 ports quantity *	6	Width	305 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3	Depth	244 mm
USB 3.2 Gen 2x2 Type-C ports quantity	1	<b>Packaging content</b>	
		Cables included	SATA
		Antenna included	✓



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