

GIGABYTE B650M GAMING WIFI6E Motherboard - AMD Ryzen 9000 Series CPUs, 5+2+2 Phases VRM, up to 6400MHz DDR5 (OC), 1xPCIe 4.0 M.2, 2.5 GbE LAN, WIFI 6E, USB 3.2 Gen 1

Brand : GIGABYTE

Product code: B650M GAMING WIFI6E

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Elevate your computing experience with GIGABYTE's renowned motherboard series: AORUS, AERO, and GIGABYTE. Featuring innovative designs and advanced features, these boards offer exceptional performance and reliability. Whether you're a gamer, content creator, or professional, our series cater to your needs, ensuring uncompromising quality and cutting-edge



Processor		Network	
Processor manufacturer *	AMD	Ethernet LAN	✓
Processor socket *	Socket AM5	Ethernet interface type	2.5 Gigabit Ethernet
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	Wi-Fi *	✓
Supported processor sockets	Socket AM5	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Memory		Wi-Fi standards	Wi-Fi 6E (802.11ax)
		WLAN controller model	Realtek RTL8852CE
		Bluetooth	✓
		Bluetooth version	5.3
		Features	
Supported memory types *	DDR5-SDRAM	Motherboard chipset *	AMD B650
Number of memory slots *	4	Audio output channels *	7.1 channels
Memory slots type	DIMM	PC health monitoring	Fan, Temperature, Voltage
Memory channels	Dual-channel	Component for *	PC
ECC compatibility	Non-ECC	Motherboard form factor *	micro ATX
Supported memory clock speeds	6400,6200,6000,5600,5200,4800,4400 MHz	Motherboard chipset family *	AMD
Supported memory clock speed (max)	6400 MHz	Power source type	ATX
Maximum internal memory *	256 GB	Windows operating systems supported	Windows 10 x64, Windows 11
Unbuffered memory	✓	Expansion slots	
Maximum internal memory per slot	64 GB	PCI Express x1 (Gen 3.x) slots	1
Storage controllers		PCI Express x16 (Gen 4.x) slots	1
Supported storage drive types	HDD & SSD	Number of M.2 (M) slots	1
Supported storage drive interfaces *	M.2, SATA III	1st M.2 largest key size	2580
Number of HDDs supported	4	1st M.2 highest PCI Express generation	4.0
Number of storage drives supported	5	BIOS	
RAID support	✓	BIOS type *	UEFI AMI
RAID levels	0, 1, 10	BIOS memory size	256 Mbit
Graphics			
Parallel processing technology support *	Not supported		

Graphics		BIOS	
Maximum resolution	4096 x 2160 pixels	ACPI version	5.0
HDCP	✓	Clear CMOS jumper	✓
Internal I/O		Desktop Management Interface (DMI) version	2.7
USB 2.0 connectors *	2	System Management BIOS (SMBIOS) version	2.7
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	Logistics data	
Number of SATA III connectors *	4	Country of origin	China
Front panel audio connector	✓	Products per shipping (inner) case	1 pc(s)
Front panel connector	✓	Battery	
ATX Power connector (24-pin)	✓	Battery weight	3 g
CPU fan connector	✓	Lithium weight per battery	0.07 g
Number of CPU fan connectors	1	Number of battery cells	1
Number of chassis fan connectors	2	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
EPS power connector (8-pin)	✓	Battery type	CR2032
Number of EPS power connectors (8-pin)	1	Packaging data	
TPM connector	✓	Package width	270 mm
RGB LED pin header	✓	Package depth	268 mm
Number of RGB LED pin headers	3	Package height	68 mm
Rear panel I/O ports		Package weight	1.21 kg
USB 2.0 ports quantity *	4	Weight & dimensions	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Width	240 mm
Ethernet LAN (RJ-45) ports *	1	Depth	225 mm
PS/2 ports quantity	1	Height	35 mm
VGA (D-Sub) ports quantity *	1	Packaging content	
HDMI ports quantity *	1	Batteries included	✓
HDMI version	2.1	Antenna included	✓
Headphone outputs	1	Screws included	✓
Line-in	✓	Bundled software	Norton® Internet Security (OEM version) LAN bandwidth management software
Microphone in	✓	Other features	
WiFi-AP antenna jack	2	Weight	720 g
		Technical details	
		Warranty period	3 year(s)



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