

GIGABYTE B850M GAMING X WIFI6E Motherboard - AMD Ryzen 9000 Series CPUs, 10+2+2 Phases Digital VRM, up to 8200MHz DDR5 (OC), 1xPCIe 5.0 + 1xPCIe 4.0 M.2, 2.5LAN, WIFI 6E, USB 3.2 Gen 2

Brand : GIGABYTE

Product code: B850M GAMING X WF6E

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- Twin 10+2+2 Phases Digital VRM with DrMOS
- Dual Channel DDR5 4*DIMMs
- PCIe Gen5 x16 with PCIe UD Slot & EZ-Latch Plus
- M.2 Gen5 with EZ-Latch Plus, Advanced MOSFET Heatsinks
- Wi-Fi 6E with WIFI EZ-Plug, & Directional Antenna
- 2.5GbE LAN, Q-Flash Plus

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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		Rear panel I/O ports	
Processor manufacturer *	AMD	Headphone outputs	1
Processor socket *	Socket AM5	Microphone in	✓
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	WiFi-AP antenna jack	2
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	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax)
ECC compatibility	Non-ECC	WLAN controller model	Realtek RTL8852CE
Supported memory clock speeds	4400, 4800, 5200, 5600, 5800, 6000, 6400, 6600, 6800, 7000, 7200, 7400, 7600, 7800, 7900, 7950, 8000, 8200 MHz	Bluetooth	✓
Supported memory clock speed (max)	8200 MHz	Bluetooth version	5.3
Maximum internal memory *	256 GB	Features	
Unbuffered memory	✓	Motherboard chipset *	AMD B850
Maximum internal memory per slot	64 GB	Audio chip	Realtek ALC897
Storage controllers		Audio output channels *	7.1 channels
Supported storage drive types	HDD & SSD	Product colour	Brown
Supported storage drive interfaces *	M.2, SATA III	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Number of HDDs supported	4	Component for *	PC
Number of storage drives supported	6	Motherboard form factor *	micro ATX
RAID support	✓	Motherboard chipset family *	AMD
RAID levels	0, 1, 10	Power source type	ATX
Graphics		Windows operating systems supported	Windows 10 x64, Windows 11 x64
Parallel processing technology support *	Not supported	Expansion slots	
On-board graphics card	✗	PCI Express x16 (Gen 3.x) slots	1
Maximum resolution	4096 x 2160 pixels		
HDCP	✓		
DirectX version	12.0		

Internal I/O		Expansion slots	
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	2
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	1st M.2 largest key size	25110
Number of SATA III connectors *	4	1st M.2 highest PCI Express generation	5.0
Front panel audio connector	✓	2nd M.2 largest key size	22110
Front panel connector	✓	2nd M.2 highest PCI Express generation	4.0
ATX Power connector (24-pin)	✓	BIOS	
CPU fan connector	✓	BIOS type *	UEFI AMI
Number of CPU fan connectors	2	BIOS memory size	256 Mbit
Peripheral (Molex) power connectors (4-pin)	1	ACPI version	5.0
EPS power connector (8-pin)	✓	Clear CMOS jumper	✓
Number of EPS power connectors (8-pin)	1	Clear CMOS button	✓
TPM connector	✓	Desktop Management Interface (DMI) version	2.7
Serial port headers	1	System Management BIOS (SMBIOS) version	2.7
12V power connector	✓	Logistics data	
Number of water pump connectors	2	Country of origin	China
RGB LED pin header	✓	Products per shipping (inner) case	1 pc(s)
Number of RGB LED pin headers	4	Battery	
Rear panel I/O ports		Battery weight	3 g
USB 2.0 ports quantity *	4	Lithium weight per battery	0.07 g
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Number of battery cells	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1	Battery type	CR2032
Ethernet LAN (RJ-45) ports *	1	Packaging data	
HDMI ports quantity *	1	Package width	270 mm
HDMI version	2.1	Package depth	268 mm
DisplayPorts quantity	1	Package height	68 mm
DisplayPort version	2.1	Package weight	1.75 kg
		Weight & dimensions	
		Width	244 mm
		Depth	244 mm
		Height	35 mm
		Packaging content	
		Batteries included	✓
		Antenna included	✓
		Screws included	✓
		Bundled software	Norton Internet Security (OEM version) LAN bandwidth management software
		Other features	
		Weight	1.54 kg
		Technical details	
		Warranty period	3 year(s)



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