

GIGABYTE B850 GAMING X WIFI6E Motherboard - AMD Ryzen 9000 Series CPUs, 12+2+2 Phases Digital VRM, up to 5200MHz DDR5 (OC), 1xPCIe 5.0 + 2xPCIe 4.0 M.2, 2.5LAN, WIFI 6E, USB 3.2 Gen 2x2



Brand : GIGABYTE

Product code: B850 GAMING X WIFI6E

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- Twin 12+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, Fully Covered MOSFET Heatsinks
- Wi-Fi 7 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		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	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)
Supported memory types *	DDR5-SDRAM	WLAN controller model	Realtek RTL8111H
Number of memory slots *	4	Bluetooth	✓
Memory slots type	DIMM	Bluetooth version	5.3
Memory channels	Dual-channel	Features	
ECC compatibility	Non-ECC	Motherboard chipset *	AMD B850
Supported memory clock speeds	4400,4800,5200 MHz	Audio chip	Realtek ALC897
Supported memory clock speed (max)	5200 MHz	Audio output channels *	7.1 channels
Maximum internal memory *	256 GB	Product colour	Brown
Unbuffered memory	✓	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Maximum internal memory per slot	64 GB	Component for *	PC
Storage controllers		Motherboard form factor *	ATX
Supported storage drive types	HDD & SSD	Motherboard chipset family *	AMD
Supported storage drive interfaces *	M.2, SATA III	Power source type	ATX
Number of HDDs supported	4	Windows operating systems supported	Windows 10 x64, Windows 11 x64
Number of storage drives supported	7	Expansion slots	
RAID support	✓	PCI Express x16 (Gen 3.x) slots	2
RAID levels	0, 1, 10	PCI Express x16 (Gen 5.x) slots	1
Graphics		Number of M.2 (M) slots	3
Parallel processing technology support *	Not supported	1st M.2 largest key size	25110
Maximum resolution	4096 x 2160 pixels	1st M.2 highest PCI Express generation	5.0

Graphics		Expansion slots	
HDCP	✓	2nd M.2 largest key size	22110
DirectX version	12.0	2nd M.2 highest PCI Express generation	4.0
Internal I/O		BIOS	
USB 2.0 connectors *	2	BIOS type *	UEFI AMI
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	BIOS memory size	256 Mbit
USB 3.2 Gen 2x2 connectors	1	ACPI version	5.0
Number of SATA III connectors *	4	Clear CMOS jumper	✓
Front panel audio connector	✓	Clear CMOS button	✓
Front panel connector	✓	Desktop Management Interface (DMI) version	2.7
ATX Power connector (24-pin)	✓	System Management BIOS (SMBIOS) version	2.7
CPU fan connector	✓	Logistics data	
Number of CPU fan connectors	2	Country of origin	China
Number of chassis fan connectors	3	Products per shipping (inner) case	1 pc(s)
Peripheral (Molex) power connectors (4-pin)	1	Battery	
EPS power connector (8-pin)	✓	Battery weight	3 g
Number of EPS power connectors (8-pin)	1	Lithium weight per battery	0.07 g
TPM connector	✓	Number of battery cells	1
Serial port headers	1	Battery technology	Lithium-Manganese Dioxide (LiMnO ₂)
12V power connector	✓	Battery type	CR2032
Number of water pump connectors	2	Packaging data	
RGB LED pin header	✓	Package width	335 mm
Number of RGB LED pin headers	4	Package depth	270 mm
Rear panel I/O ports		Package height	80 mm
USB 2.0 ports quantity *	3	Package weight	2.38 kg
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	Weight & dimensions	
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1	Width	305 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1	Depth	244 mm
Ethernet LAN (RJ-45) ports *	1	Height	35 mm
HDMI ports quantity *	1	Packaging content	
DisplayPorts quantity	1	Batteries included	✓
Headphone outputs	1	Antenna included	✓
Microphone in	✓	Screws included	✓
WiFi-AP antenna jack	2	Bundled software	Norton Internet Security (OEM version) LAN bandwidth management software
Other features		Other features	
		Weight	2.1 kg
Technical details		Technical details	
		Warranty period	3 year(s)



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