GIGABYTE B850 GAMING X WIFI6E Motherboard - AMD Ryzen 9000 Series CPUs, 12+2+2 Phases Digital VRM, up to 8200MHz DDR5 (OC), 1xPCle 5.0 + 2xPCle 4.0 M.2, 2.5LAN, WIFI 6E, USB 3.2 Gen 2x2

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Brand : GIGABYTE Product code: B850 GAMING X

Product name : B850 GAMING X WIFI6E Motherboard - AMD Ryzen 9000 Series CPUs, 12+2+2 Phases Digital VRM, up to 8200MHz DDR5 (OC), 1xPCle 5.0 + 2xPCle 4.0 M.2, 2.5LAN, WIFI 6E, USB 3.2 Gen 2x2

- Twin 12+2+2 Phases Digital VRM with DrMOS
- Dual Channel DDR5∏4*DIMMs
- PCle Gen5 x16 with PCle 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			Rear panel I/O ports	
Processor manufacturer *		AMD	WiFi-AP antenna jack	2
Processor socket *		AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000	Network	
Compatible processor series *			Ethernet LAN Ethernet interface type	✓ 2.5 Gigabit Ethernet
Supported processor sockets		Socket AM5	Wi-Fi *	✓
Memory			Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Supported memory types * Number of memory slots * Memory slots type Memory channels ECC compatibility Supported memory clock speeds Supported memory clock speed (max) Maximum internal memory * Unbuffered memory Maximum internal memory per slot Maximum internal memory per slot	MHz 8200 MHz 256 GB ✓	.6200,6400,6600,6800,7000,7200,7400,7600,7800,7900,7950,8000,8200	Wi-Fi standards Wi-Fi standards WLAN controller model Bluetooth Bluetooth version	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) Realtek RTL8111H
Storage controllers			Features	
Number of HDDs	e drive interfaces *	4	Motherboard chipset * Audio chip Audio output channels * Product colour	AMD B850 Realtek ALC897 7.1 channels Brown
RAID support RAID levels		✓ 0, 1, 10	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Graphics			Component for * Motherboard form factor *	PC ATX
Parallel processing support *	g technology	Not supported	Motherboard chipset family *	AMD
Maximum resoluti HDCP	on	4096 x 2160 pixels ✓	Power source type Windows operating systems supported	ATX Windows 10 x64, Windows 11 x64
DirectX version		12.0	Expansion slots	
Internal I/O USB 2.0 connecto	rs *	2	PCI Express x16 (Gen 5.x) slots Number of M.2 (M) slots 1st M.2 largest key size	1 3 25110

Internal I/O		Expansion slots	
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	1st M.2 highest PCI Express generation	5.0
USB 3.2 Gen 2x2 connectors	1	2nd M.2 largest key size	22110
Number of SATA III connectors *	4	2nd M.2 highest PCI Express generation	4.0
Front panel audio connector	1	3rd M.2 largest key size	22110
Front panel connector	1	3rd M.2 highest PCI Express	
ATX Power connector (24-pin)	1	generation	4.0
CPU fan connector	1	BIOS	
Number of CPU fan connectors	2	BIOS type *	UEFI AMI
Peripheral (Molex) power connectors (4-pin)	1	BIOS memory size ACPI version	256 Mbit 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	2.7
Serial port headers	1	(DMI) version	
12V power connector	✓	System Management BIOS (SMBIOS) version	2.7
Number of water pump connectors	2	Logistics data	
RGB LED pin header	✓	Country of origin	China
Number of RGB LED pin headers	4	Products per shipping (inner) case	1 pc(s)
Rear panel I/O ports		Battery	
USB 2.0 ports quantity *	3	Battery weight	3 g
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	Lithium weight per battery	0.07 g
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1	Number of battery cells	1 Lithium Manganosa Diavida
USB 3.2 Gen 2 (3.1 Gen 2) Type-C	1	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
ports quantity * Ethernet LAN (RJ-45) ports *	1	Battery type	CR2032
HDMI ports quantity *	1	Packaging data	
HDMI version	2.1	Package width	335 mm
DisplayPorts quantity	1	Package depth	270 mm
DisplayPort version	2.1	Package height	80 mm
Headphone outputs	1	Package weight	2.38 kg
Microphone in	1	Weight & dimensions	
		Width	305 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	2.1 kg
		Technical details	
		Warranty period	3 year(s)
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