

## GIGABYTE B850 AORUS ELITE WIFI7 Motherboard - AMD Ryzen 9000 Series CPUs, 14+2+2 Phases Digital VRM, up to 5200MHz DDR5 (OC), 1xPCIe 5.0 + 2xPCIe 4.0 M.2, 2.5 LAN, WIFI 7, USB 3.2 Gen 2x2



**Brand :** GIGABYTE

**Product code:** B850 A ELITE WF7

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- Twin 14+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		Rear panel I/O ports	
Processor manufacturer *	AMD	Microphone in	✓
Processor socket *	Socket AM5	WiFi-AP antenna jack	2
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	Network	
Supported processor sockets	Socket AM5	Ethernet LAN	✓
Memory		Ethernet interface type	2.5 Gigabit Ethernet
Supported memory types *	DDR5-SDRAM	Wi-Fi *	✓
Number of memory slots *	4	Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Memory slots type	DIMM	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), Wi-Fi 7 (802.11be)
Memory channels	Dual-channel	WLAN controller model	Realtek RTL8922AE
ECC compatibility	Non-ECC	Bluetooth	✓
Supported memory clock speeds	4400,4800,5200 MHz	Bluetooth version	5.4
Supported memory clock speed (max)	5200 MHz	Features	
Maximum internal memory *	256 GB	Motherboard chipset *	AMD B850
Unbuffered memory	✓	Audio chip	Realtek ALC897
Maximum internal memory per slot	64 GB	Audio output channels *	7.1 channels
Storage controllers		Product colour	Black, Brown
Supported storage drive types	HDD & SSD	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Supported storage drive interfaces *	M.2, SATA III	Component for *	PC
Number of HDDs supported	4	Motherboard form factor *	ATX
Number of storage drives supported	7	Motherboard chipset family *	AMD
RAID support	✓	Power source type	ATX
RAID levels	0, 1, 10	Windows operating systems supported	Windows 10 x64, Windows 11 x64
Graphics			
Parallel processing technology support *	Not supported		

<b>Graphics</b>		<b>Expansion slots</b>	
Maximum resolution	4096 x 2160 pixels	PCI Express x16 (Gen 4.x) slots	2
HDCP	✓	Number of M.2 (M) slots	3
DirectX version	12.0	1st M.2 largest key size	25110
<b>Internal I/O</b>		1st M.2 highest PCI Express generation	5.0
USB 2.0 connectors *	2	2nd M.2 largest key size	22110
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	2nd M.2 highest PCI Express generation	4.0
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	3rd M.2 largest key size	22110
USB 3.2 Gen 2x2 connectors	1	3rd M.2 highest PCI Express generation	4.0
Number of SATA III connectors *	4	<b>BIOS</b>	
Front panel audio connector	✓	BIOS type *	UEFI AMI
Front panel connector	✓	BIOS memory size	256 Mbit
ATX Power connector (24-pin)	✓	ACPI version	5.0
CPU fan connector	✓	Clear CMOS jumper	✓
Number of CPU fan connectors	2	Clear CMOS button	✓
Number of chassis fan connectors	3	Desktop Management Interface (DMI) version	2.7
Peripheral (Molex) power connectors (4-pin)	1	System Management BIOS (SMBIOS) version	2.7
EPS power connector (8-pin)	✓	<b>Logistics data</b>	
Number of EPS power connectors (8-pin)	1	Country of origin	China
TPM connector	✓	Products per shipping (inner) case	1 pc(s)
Serial port headers	1	<b>Battery</b>	
12V power connector	✓	Battery weight	3 g
Number of water pump connectors	2	Lithium weight per battery	0.07 g
RGB LED pin header	✓	Number of battery cells	1
Number of RGB LED pin headers	4	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
<b>Rear panel I/O ports</b>		Battery type	CR2032
USB 2.0 ports quantity *	4	<b>Packaging data</b>	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	5	Package width	335 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2	Package depth	270 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1	Package height	80 mm
Ethernet LAN (RJ-45) ports *	1	Package weight	2.46 kg
HDMI ports quantity *	1	<b>Weight &amp; dimensions</b>	
DisplayPorts quantity	1	Width	305 mm
Headphone outputs	1	Depth	244 mm
		Height	35 mm
		<b>Packaging content</b>	
		Batteries included	✓
		Antenna included	✓
		Screws included	✓
		Bundled software	Norton Internet Security (OEM version) LAN bandwidth management software
		<b>Other features</b>	
		Weight	2.13 kg
		<b>Technical details</b>	
		Warranty period	3 year(s)



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