

GIGABYTE B850 AORUS ELITE WIFI7 ICE Motherboard - AMD Ryzen 9000 Series CPUs, 14+2+2 Phases Digital VRM, up to 8200MHz 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 ICE

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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	DisplayPort version	1.4
Processor socket *	Socket AM5	Headphone outputs	1
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	Microphone in	✓
		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 7 (802.11be)
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), Wi-Fi 7 (802.11be)
ECC compatibility	Non-ECC		
Supported memory clock speeds	4400, 4800, 5200, 5600, 5800, 6000, 6200, 6600, 6800, 7000, 7200, 7400, 7600, 7900, 7950, 8000, 8200 MHz	WLAN controller model	Realtek RTL8922AE
Supported memory clock speed (max)	8200 MHz	Bluetooth	✓
Maximum internal memory *	256 GB	Bluetooth version	5.4
Unbuffered memory	✓	Features	
Maximum internal memory per slot	64 GB	Motherboard chipset *	AMD B850
Storage controllers		Audio chip	Realtek ALC897
Supported storage drive types	HDD & SSD	Audio output channels *	7.1 channels
Supported storage drive interfaces *	M.2, SATA III	Product colour	Brown, White
Number of HDDs supported	4	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Number of storage drives supported	7	Component for *	PC
RAID support	✓	Motherboard form factor *	ATX
RAID levels	0, 1, 10	Motherboard chipset family *	AMD
Graphics		Power source type	ATX
Parallel processing technology support *	Not supported	Windows operating systems supported	Windows 10 x64, Windows 11 x64
On-board graphics card	✗		
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 4.x) slots	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	Number of M.2 (M) slots	3
USB 3.2 Gen 2x2 connectors	1	1st M.2 largest key size	25110
Number of SATA III connectors *	4	1st M.2 highest PCI Express generation	5.0
Total number of SATA connectors	4	2nd M.2 largest key size	22110
Front panel audio connector	✓	2nd M.2 highest PCI Express generation	4.0
Front panel connector	✓	3rd M.2 largest key size	22110
ATX Power connector (24-pin)	✓	3rd M.2 highest PCI Express generation	4.0
CPU fan connector	✓	BIOS	
Number of CPU fan connectors	2	BIOS type *	UEFI AMI
Number of chassis fan connectors	3	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 *	5	Number of battery cells	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2	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	335 mm
HDMI version	1.4	Package depth	270 mm
DisplayPorts quantity	1	Package height	80 mm
		Package weight	2.46 kg
		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	2.16 kg
		Technical details	
		Warranty period	3 year(s)



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