

## GIGABYTE B850M AORUS ELITE WIFI6E Motherboard - AMD Ryzen 9000 Series CPUs, 12+2+2 Phases Digital VRM, up to 8200MHz DDR5 (OC), 1xPCIe 5.0 + 1xPCIe 4.0 M.2, WIFI 6E, 2.5GbE LAN, USB 3.2 Gen 2



**Brand :** GIGABYTE

**Product code:** B850M A ELT WF6E

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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



<b>Processor</b>		<b>Rear panel I/O ports</b>	
Processor manufacturer *	AMD	Digital audio optical out	1
Processor socket *	Socket AM5	WiFi-AP antenna jack	2
<b>Compatible processor series *</b>		<b>Network</b>	
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	Ethernet LAN	✓
Supported processor sockets	Socket AM5	Ethernet interface type	2.5 Gigabit Ethernet
<b>Memory</b>		LAN controller	Realtek RTL8125
Supported memory types *	DDR5-SDRAM	Wi-Fi *	✓
Number of memory slots *	4	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
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)
Memory channels	Dual-channel	WLAN controller model	Realtek RTL8852CE
ECC compatibility	Non-ECC	Bluetooth	✓
Supported memory clock speeds (MHz)	8200,8000,7950,7900,7800,7600,7400,7200,7000,6800,6600,6400,6200,6000,5800,5600,5200,4800,4400	Bluetooth version	5.3
Supported memory clock speed (max)	8200 MHz	<b>Features</b>	
Maximum internal memory *	256 GB	Motherboard chipset *	AMD B850
Unbuffered memory	✓	Audio chip	Realtek ALC1220-VB
Maximum internal memory per slot	64 GB	Audio output channels *	7.1 channels
<b>Storage controllers</b>		Product colour	Black
Supported storage drive types	HDD & SSD	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Supported storage drive interfaces *	M.2, PCI Express 4.0, PCI Express 5.0, SATA III	Component for *	PC
Number of HDDs supported	4	Motherboard form factor *	micro ATX
Number of storage drives supported	6	Motherboard chipset family *	AMD
RAID support	✓	Cooling type	Passive
RAID levels	0, 1, 10	Power source type	ATX
<b>Graphics</b>		Windows operating systems supported	Windows 10 x64, Windows 11 x64
Parallel processing technology support *	Not supported		
Maximum resolution	3840 x 2160 pixels		
DirectX version	12.0		
<b>Internal I/O</b>			
USB 2.0 connectors *	2		

Internal I/O		Expansion slots	
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	PCI Express x16 (Gen 3.x) slots	1
USB 3.2 Gen 2x2 connectors	1	PCI Express x16 (Gen 5.x) slots	1
Number of SATA III connectors *	4	Number of M.2 (M) slots	2
Front panel audio connector	✓	1st M.2 largest key size	25110
Front panel connector	✓	1st M.2 highest PCI Express generation	5.0
ATX Power connector (24-pin)	✓	2nd M.2 largest key size	22110
CPU fan connector	✓	2nd M.2 highest PCI Express generation	4.0
Number of CPU fan connectors	2	BIOS	
Number of chassis fan connectors	4	BIOS type *	UEFI AMI
EPS power connector (8-pin)	✓	BIOS memory size	256 Mbit
Number of EPS power connectors (8-pin)	1	ACPI version	5.0
TPM connector	✓	Clear CMOS jumper	✓
12V power connector	✓	Desktop Management Interface (DMI) version	2.7
Number of water pump connectors	2	System Management BIOS (SMBIOS) version	2.7
RGB LED pin header	✓	Logistics data	
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 *	4	Battery weight	3 g
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	5	Lithium weight per battery	0.07 g
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2	Number of battery cells	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1	Battery technology	Lithium-Manganese Dioxide (LiMnO <sub>2</sub> )
Ethernet LAN (RJ-45) ports *	1	Battery type	CR2032
HDMI ports quantity *	1	Packaging data	
HDMI version	1.4	Package width	270 mm
DisplayPorts quantity	1	Package depth	268 mm
DisplayPort version	1.4	Package height	68 mm
Headphone outputs	1	Package weight	1.97 kg
Line-in	✓	Weight & dimensions	
S/PDIF out port	✓	Width	244 mm
		Depth	244 mm
		Height	35 mm
Packaging content		Weight & dimensions	
Batteries included	✓	Width	244 mm
Antenna included	✓	Depth	244 mm
Screws included	✓	Height	35 mm
Bundled software	Norton® Internet Security (OEM version) LAN bandwidth management software		
Other features		Weight & dimensions	
Weight	1.78 kg	Technical details	
Warranty period	3 year(s)	Weight & dimensions	



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