

GIGABYTE B650E AORUS ELITE X AX ICE Motherboard - Supports AMD Ryzen 8000 CPUs, 12+2+2 phases VRM, up to 8000MHz DDR5 (OC), 1xPCIe 5.0 M2 + 2xPCIe 4.0 M.2, Wi-Fi 6E, 2.5GbE LAN, USB 3.2 Gen 2

Brand : GIGABYTE

Product code: B650E AORUS ELITE X AX ICE

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AMD Socket AM5, AMD B650, 4 x DDR5, 2.5GbE, ATX, PCI-Express

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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 technology.



Processor		Rear panel I/O ports	
Processor manufacturer *	AMD	HDMI version	2.1
Processor socket *	Socket AM5	DisplayPorts quantity	1
Compatible processor series *	AMD Ryzen™ 7	DisplayPort version	1.4
Maximum number of SMP processors	1	WiFi-AP antenna jack	2
Supported processor sockets	Socket AM5	Network	
Maximum internal memory supported by processor	192 GB	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 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)
Memory channels	Dual-channel	WLAN controller model	AMD RZ616
ECC	✓	Bluetooth	✓
Non-ECC	✓	Bluetooth version	5.3
Supported memory clock speeds	8000, 7800, 7600, 7200, 7000, 6800, 6666, 6600, 6400, 6200, 6000, 5600, 5200, 4800, 4400 MHz	Features	
Supported memory clock speed (max)	8000 MHz	Motherboard chipset *	AMD B650
Maximum internal memory *	192 GB	Audio output channels *	7.1 channels
Supported memory module capacities	1GB, 2GB, 4GB, 8GB, 12GB, 16GB, 48GB	Product colour	White
Unbuffered memory	✓	PC health monitoring	Fan, Temperature, Voltage
Storage controllers		Component for *	PC
Supported storage drive types	HDD & SSD	Motherboard form factor *	ATX
Supported storage drive interfaces *	M.2, SATA III	Motherboard chipset family *	AMD
Number of HDDs supported	3	Windows operating systems supported	Windows 10 x64, Windows 11 x64
Number of storage drives supported	7	Expansion slots	
RAID support	✓	PCI Express x16 slots	3
RAID levels	0, 1, 5, 10	Number of M.2 (M) slots	3
Graphics		BIOS	
Maximum resolution	4096 x 2160 pixels	BIOS type *	UEFI AMI
		BIOS memory size	256 Mbit
		ACPI version	5.0

Graphics		BIOS	
HDCP	✓	Clear CMOS jumper	✓
Internal I/O		Clear CMOS button	✓
USB 2.0 connectors *	2	Desktop Management Interface (DMI) version	2.7
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	System Management BIOS (SMBIOS) version	2.7
USB 3.2 Gen 2x2 connectors	1	Logistics data	
Number of SATA III connectors *	4	Country of origin	China
Front panel audio connector	✓	Products per shipping (inner) case	1 pc(s)
Front panel connector	✓	Battery	
ATX Power connector (24-pin)	✓	Battery weight	3 g
CPU fan connector	✓	Lithium weight per battery	0.07 g
Number of chassis fan connectors	4	Number of battery cells	1
Thunderbolt headers	2	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
12V power connector	✓	Battery type	CR2032
RGB LED pin header	✓	Packaging data	
Rear panel I/O ports		Package width	335 mm
USB 2.0 ports quantity *	4	Package depth	270 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	5	Package height	80 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2	Package weight	2.19 kg
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1	Weight & dimensions	
Ethernet LAN (RJ-45) ports *	1	Width	305 mm
HDMI ports quantity *	1	Depth	244 mm
		Height	35 mm
		Packaging content	
		Cables included	SATA
		Batteries included	✓
		Drivers included	✓
		Bundled software	Norton Internet Security (OEM version) LAN bandwidth management software
		Technical details	
		Warranty period	3 year(s)



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Publication date: 25-OCT-2024. Prints or copies of Information are only valid on the printed Publication date