



## GIGABYTE B650 GAMING X AX V2 Motherboard - Supports AMD Ryzen 8000 CPUs, 8+2+2 Phases Digital VRM, up to 8000MHz DDR5 (OC), 1xPCIe 5.0 + 2xPCIe 4.0 M.2, Wi-Fi 6E 802.11ax, 2.5GbE LAN, USB 3.2 Gen 2

**Brand :** GIGABYTE

**Product code:** B650 GAMING X AX V2

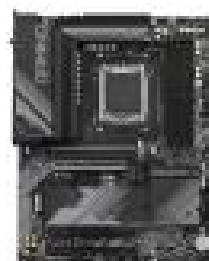


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AMD Socket AM5, AMD B650, 4 x DDR5, 2.5GbE LAN, ATX, PCI-Express

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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	Headphone outputs	3
Processor socket *	Socket AM5	Microphone in	✓
Compatible processor series *	AMD Ryzen™ 5, AMD Ryzen 7 7th Gen, AMD Ryzen 9 7th Gen	WiFi-AP antenna jack	2
Supported processor sockets	Socket AM5	USB connector type	USB Type-A, USB Type-C
Maximum internal memory supported by processor	192 GB	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 6E (802.11ax)
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)
Non-ECC	✓	WLAN controller model	AMD RZ616
Supported memory clock speeds	8000, 7800, 7600, 7200, 7000, 6800, 6600, 6400, 6200, 6000, 5600, 5200, 4800, 4400 MHz	Bluetooth	✓
Supported memory clock speed (max)	8000 MHz	Bluetooth version	5.2
Maximum internal memory *	192 GB	Features	
Supported memory module capacities	1GB, 2GB, 4GB, 8GB, 12GB, 16GB, 32GB, 48GB	Motherboard chipset *	AMD B650
Unbuffered memory	✓	Audio chip	Realtek ALC897
Storage controllers		Audio output channels *	7.1 channels
Supported storage drive types	HDD & SSD	Product colour	Black
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Number of HDDs supported	1	Component for *	PC
Number of storage drives supported	5	Motherboard form factor *	ATX
RAID support	✓	Motherboard chipset family *	AMD
RAID levels	0, 1, 10	Cooling type	Active
Graphics		Power source type	ATX
Parallel processing technology support *	Not supported	Windows operating systems supported	Windows 10 x64, Windows 11 x64
Maximum resolution	4096 x 2160 pixels	Expansion slots	
		PCI Express x16 slots	3
		Number of M.2 (M) slots	3

<b>Graphics</b>		<b>BIOS</b>	
HDCP	✓	BIOS type *	UEFI AMI
<b>Internal I/O</b>		BIOS memory size	256 Mbit
USB 2.0 connectors *	2	ACPI version	5.0
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	Clear CMOS jumper	✓
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Clear CMOS button	✓
Number of SATA III connectors *	4	Desktop Management Interface (DMI) version	2.7
Front panel audio connector	✓	System Management BIOS (SMBIOS) version	2.7
Front panel connector	✓	<b>Logistics data</b>	
ATX Power connector (24-pin)	✓	Country of origin	China
CPU fan connector	✓	Products per shipping (inner) case	1 pc(s)
EPS power connector (8-pin)	✓	<b>Battery</b>	
TPM connector	✓	Battery weight	3 g
Serial port headers	1	Lithium weight per battery	0.07 g
12V power connector	✓	Number of battery cells	1
RGB LED pin header	✓	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
<b>Rear panel I/O ports</b>		Battery type	CR2032
USB 2.0 ports quantity *	3	<b>Packaging data</b>	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	Package width	335 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1	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	1.96 kg
HDMI ports quantity *	1	<b>Weight &amp; dimensions</b>	
HDMI version	2.1	Width	305 mm
DisplayPorts quantity	1	Depth	244 mm
DisplayPort version	1.4	Height	35 mm
		<b>Packaging content</b>	
		Cables included	SATA
		Batteries included	✓
		Bundled software	Norton Internet Security (OEM version) LAN bandwidth management software
		<b>Technical details</b>	
		Warranty period	3 year(s)



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