



## GIGABYTE B650M GAMING X AX - Supports AMD AM5 CPUs, 6+2+1 Phases Digital VRM, up to 8000MHz DDR5 (OC), 2xPCIe 4.0 M.2, Wi-Fi 6E, 2.5GbE LAN, USB 3.2 Gen 2

**Brand :** GIGABYTE

**Product code:** B650M GAMING X AX

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Micro ATX, Socket AM5, AMD B650 chipset, 4x DDR5 DIMM, AMI UEFI BIOS, WIFI, Bluetooth 5.3

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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	DisplayPorts quantity	2
Processor socket *	Socket AM5	DisplayPort version	1.4
Compatible processor series *	AMD Ryzen™ 3, AMD Ryzen™ 5, AMD Ryzen™ 7, AMD Ryzen 9 7th Gen	Headphone outputs	3
Maximum number of SMP processors	1	Microphone in	✓
Supported processor sockets	Socket AM5	WiFi-AP antenna jack	2
<b>Memory</b>		USB connector type	USB Type-A, USB Type-C
Supported memory types *	DDR5-SDRAM	<b>Network</b>	
Number of memory slots *	4	Ethernet LAN	✓
Memory slots type	DIMM	Ethernet interface type	2.5 Gigabit Ethernet
Memory channels	Dual-channel	LAN controller	Realtek RTL8125
ECC compatibility	Non-ECC	Wi-Fi *	✓
Non-ECC	✓	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Supported memory clock speeds	4800,5200,5600,6000,6200,6400,6600,6800,7000,7200,7600,7800,8000 MHz	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)
Supported memory clock speed (max)	8000 MHz	WLAN controller model	Realtek RTL8852CE
Maximum internal memory *	192 GB	Bluetooth	✓
Unbuffered memory	✓	Bluetooth version	5.3
<b>Storage controllers</b>		<b>Features</b>	
Supported storage drive types	HDD & SSD	Motherboard chipset *	AMD B650
Supported storage drive interfaces *	M.2, SATA III	Audio chip	Realtek ALC897
Number of HDDs supported	4	Audio output channels *	7.1 channels
Number of storage drives supported	6	Product colour	Brown
RAID support	✓	PC health monitoring	Fan, Temperature, Voltage
RAID levels	0, 1, 10	Component for *	PC
<b>Graphics</b>		Motherboard form factor *	micro ATX
Parallel processing technology support *	Not supported	Motherboard chipset family *	AMD
Maximum resolution	4096 x 2160 pixels	Windows operating systems supported	Windows 10 x64, Windows 11 x64
HDCP	✓	<b>Expansion slots</b>	
DirectX version	12.0	PCI Express x1 (Gen 3.x) slots	1
Discrete graphics support	✓	PCI Express x16 (Gen 4.x) slots	1
Number of displays supported	3		

<b>Internal I/O</b>		<b>Expansion slots</b>	
USB 2.0 connectors *	2	Number of M.2 (M) slots	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	<b>BIOS</b>	
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	BIOS type *	UEFI AMI
Number of SATA III connectors *	4	BIOS memory size	256 Mbit
Front panel audio connector	✓	ACPI version	5.0
Front panel connector	✓	Clear CMOS jumper	✓
ATX Power connector (24-pin)	✓	Clear CMOS button	✓
Number of EATX power connectors	1	Desktop Management Interface (DMI) version	2.7
CPU fan connector	✓	System Management BIOS (SMBIOS) version	2.7
Number of chassis fan connectors	3	<b>Logistics data</b>	
EPS power connector (8-pin)	✓	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
RGB LED pin header	✓	Lithium weight per battery	0.07 g
<b>Rear panel I/O ports</b>		Number of battery cells	1
USB 2.0 ports quantity *	4	Battery technology	Lithium-Manganese Dioxide (LiMnO <sub>2</sub> )
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Battery type	CR2032
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1	<b>Packaging data</b>	
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1	Package width	270 mm
Ethernet LAN (RJ-45) ports *	1	Package depth	268 mm
PS/2 ports quantity	1	Package height	68 mm
HDMI ports quantity *	1	Package weight	1.7 kg
HDMI version	2.1	<b>Weight &amp; dimensions</b>	
		Width	244 mm
		Depth	244 mm
		Height	35 mm
		<b>Packaging content</b>	
		Cables included	SATA
		Batteries included	✓
		Antenna 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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