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

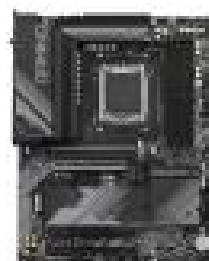**Brand :** GIGABYTE

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

Processor manufacturer *	AMD
Processor socket *	Socket AM5
Compatible processor series *	AMD Ryzen™ 5, AMD Ryzen 7 7th Gen, AMD Ryzen 9 7th Gen
Supported processor sockets	Socket AM5
Maximum internal memory supported by processor	192 GB

Memory

Supported memory types *	DDR5-SDRAM
Number of memory slots *	4
Memory slots type	DIMM
Memory channels	Dual-channel
Non-ECC	✓
Supported memory clock speeds	8000, 7800, 7600, 7200, 7000, 6800, 6600, 6400, 6200, 6000, 5600, 5200, 4800, 4400 MHz
Supported memory clock speed (max)	8000 MHz
Maximum internal memory *	192 GB
Supported memory module capacities	1GB, 2GB, 4GB, 8GB, 12GB, 16GB, 32GB, 48GB
Unbuffered memory	✓

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III
Number of HDDs supported	1
Number of storage drives supported	5
RAID support	✓
RAID levels	0, 1, 10

Graphics

Parallel processing technology support *	Not supported
Maximum resolution	4096 x 2160 pixels

Rear panel I/O ports

Headphone outputs	3
Microphone in	✓
WiFi-AP antenna jack	2
USB connector type	USB Type-A, USB Type-C

Network

Ethernet LAN	✓
Ethernet interface type	2.5 Gigabit Ethernet
Wi-Fi *	✓
Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
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)
WLAN controller model	AMD RZ616
Bluetooth	✓
Bluetooth version	5.2

Features

Motherboard chipset *	AMD B650
Audio chip	Realtek ALC897
Audio output channels *	7.1 channels
Product colour	Black
PC health monitoring	Fan, Temperature, Voltage, Water cooling
Component for *	PC
Motherboard form factor *	ATX
Motherboard chipset family *	AMD
Cooling type	Active
Power source type	ATX
Windows operating systems supported	Windows 10 x64, Windows 11 x64

Expansion slots

PCI Express x16 slots	3
Number of M.2 (M) slots	3

Graphics

HDCP	✔

Internal I/O

USB 2.0 connectors *	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1
Number of SATA III connectors *	4
Front panel audio connector	✔
Front panel connector	✔
ATX Power connector (24-pin)	✔
CPU fan connector	✔
EPS power connector (8-pin)	✔
TPM connector	✔
Serial port headers	1
12V power connector	✔
RGB LED pin header	✔

Rear panel I/O ports

USB 2.0 ports quantity *	3
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Ethernet LAN (RJ-45) ports *	1
HDMI ports quantity *	1
HDMI version	2.1
DisplayPorts quantity	1
DisplayPort version	1.4

BIOS

BIOS type *	UEFI AMI
BIOS memory size	256 Mbit
ACPI version	5.0
Clear CMOS jumper	✔
Clear CMOS button	✔
Desktop Management Interface (DMI) version	2.7
System Management BIOS (SMBIOS) version	2.7

Logistics data

Country of origin	China
Products per shipping (inner) case	1 pc(s)

Battery

Battery weight	3 g
Lithium weight per battery	0.07 g
Number of battery cells	1
Battery technology	Lithium-Manganese Dioxide (LiMnO2)
Battery type	CR2032

Packaging data

Package width	335 mm
Package depth	270 mm
Package height	80 mm
Package weight	1.96 kg

Weight & dimensions

Width	305 mm
Depth	244 mm
Height	35 mm

Packaging content

Cables included	SATA
Batteries included	✔
Bundled software	Norton Internet Security (OEM version) LAN bandwidth management software

Technical details

Warranty period	3 year(s)

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