

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 Supports AMD Ryzen™ 7000/ Ryzen™ 8000 Series Processors
 - Unparalleled Performance Direct 8+2+2 Phases Digital VRM Solution
 - Dual Channel DDR5 4*SMD DIMMs with AMD EXPO™ & Intel® XMP Memory Module Support
 - SuperSpeed Storage 1*PCIe 5.0 x4 + 2*PCIe 4.0 x4 M.2 Connectors
 - Advanced Thermal Design & M.2 Thermal Guard To Ensure VRM Power Stability & 25110 M.2 SSD Performance
 - EZ-Latch PCIe x16 Slot with Quick Release Design
 - Fast Networks 2.5GbE LAN & Wi-Fi 6E 802.11ax
 - Extended Connectivity DP, HDMI, Rear USB-C® 10Gb/s, Front USB-C® 20Gb/s
 - Smart Fan 6 Features Multiple Temperature Sensors, Hybrid Fan Headers with FAN STOP
 - Q-Flash Plus Update BIOS Without Installing the CPU, Memory and Graphics Card
- AMD Socket AM5, AMD B650, 4 x DDR5, 2.5GbE LAN, ATX, PCI-Express



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Durable Performance

GIGABYTE Ultra Durable™ motherboards built with optimal components inside out provide the prime performance and timeless platform.

| 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 |
| | | Motherboard chipset family * | AMD |
| | | Cooling type | Active |
| | | Power source type | ATX |

| | | | |
|---|--------------------|--|--|
| Storage controllers | | Features | |
| RAID support | ✓ | Windows operating systems supported | Windows 10 x64, Windows 11 x64 |
| RAID levels | 0, 1, 10 | | |
| Graphics | | Expansion slots | |
| Parallel processing technology support * | Not supported | PCI Express x16 slots | 3 |
| Maximum resolution | 4096 x 2160 pixels | Number of M.2 (M) slots | 3 |
| HDCP | ✓ | | |
| Internal I/O | | BIOS | |
| USB 2.0 connectors * | 2 | BIOS type * | UEFI AMI |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * | 1 | BIOS memory size | 256 Mbit |
| USB 3.2 Gen 2 (3.1 Gen 2) connectors * | 1 | ACPI version | 5.0 |
| Number of SATA III connectors * | 4 | Clear CMOS jumper | ✓ |
| Front panel audio connector | ✓ | Clear CMOS button | ✓ |
| Front panel connector | ✓ | Desktop Management Interface (DMI) version | 2.7 |
| ATX Power connector (24-pin) | ✓ | System Management BIOS (SMBIOS) version | 2.7 |
| CPU fan connector | ✓ | | |
| EPS power connector (8-pin) | ✓ | Logistics data | |
| TPM connector | ✓ | Country of origin | China |
| Serial port headers | 1 | Products per shipping (inner) case | 1 pc(s) |
| 12V power connector | ✓ | | |
| RGB LED pin header | ✓ | 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 |
| Rear panel I/O ports | | Packaging data | |
| USB 2.0 ports quantity * | 3 | Package width | 335 mm |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 3 | Package depth | 270 mm |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 1 | Package height | 80 mm |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * | 1 | Package weight | 1.96 kg |
| Ethernet LAN (RJ-45) ports * | 1 | | |
| HDMI ports quantity * | 1 | Weight & dimensions | |
| HDMI version | 2.1 | Width | 305 mm |
| DisplayPorts quantity | 1 | Depth | 244 mm |
| DisplayPort version | 1.4 | 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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