

## GIGABYTE B650M GAMING X AX Motherboard - AMD Ryzen 9000 Series CPUs, 6+2+1 Phases VRM, up to 8000MHz DDR5 (OC), 2xPCIe 4.0 M.2, 2.5GbE LAN, WIFI 6E, USB 3.2 Gen 2

**Brand :** GIGABYTE

**Product code:** B650M GAMING X AX

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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



| Processor                                |                                                                      | Rear panel I/O ports                |                                                                                                           |
|------------------------------------------|----------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Processor manufacturer *                 | AMD                                                                  | Headphone outputs                   | 1                                                                                                         |
| Processor socket *                       | Socket AM5                                                           | Line-in                             | ✓                                                                                                         |
| Compatible processor series *            | AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series  | Microphone in                       | ✓                                                                                                         |
| Supported processor sockets              | Socket AM5                                                           | WiFi-AP antenna jack                | 2                                                                                                         |
| Memory                                   |                                                                      | Network                             |                                                                                                           |
| Supported memory types *                 | DDR5-SDRAM                                                           | Ethernet LAN                        | ✓                                                                                                         |
| Number of memory slots *                 | 4                                                                    | Ethernet interface type             | 2.5 Gigabit Ethernet                                                                                      |
| Memory slots type                        | DIMM                                                                 | LAN controller                      | Realtek RTL8125                                                                                           |
| Memory channels                          | Dual-channel                                                         | Wi-Fi *                             | ✓                                                                                                         |
| ECC compatibility                        | 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 *                | 256 GB                                                               | Bluetooth                           | ✓                                                                                                         |
| Unbuffered memory                        | ✓                                                                    | Bluetooth version                   | 5.3                                                                                                       |
| Maximum internal memory per slot         | 64 GB                                                                | Features                            |                                                                                                           |
| Storage controllers                      |                                                                      | Motherboard chipset *               | AMD B650                                                                                                  |
| Supported storage drive types            | HDD & SSD                                                            | Audio chip                          | Realtek ALC897                                                                                            |
| Supported storage drive interfaces *     | M.2, SATA III                                                        | Audio output channels *             | 7.1 channels                                                                                              |
| Number of HDDs supported                 | 4                                                                    | Product colour                      | Brown                                                                                                     |
| Number of storage drives supported       | 6                                                                    | PC health monitoring                | Fan, Temperature, Voltage                                                                                 |
| RAID support                             | ✓                                                                    | Component for *                     | PC                                                                                                        |
| RAID levels                              | 0, 1, 10                                                             | Motherboard form factor *           | micro ATX                                                                                                 |
| Graphics                                 |                                                                      | Motherboard chipset family *        | AMD                                                                                                       |
| Parallel processing technology support * | Not supported                                                        | Power source type                   | ATX                                                                                                       |
| Maximum resolution                       | 4096 x 2160 pixels                                                   | Windows operating systems supported | Windows 10 x64, Windows 11 x64                                                                            |
| HDCP                                     | ✓                                                                    |                                     |                                                                                                           |
| DirectX version                          | 12.0                                                                 |                                     |                                                                                                           |
| Discrete graphics support                | ✓                                                                    |                                     |                                                                                                           |

| Internal I/O                                      |     | Expansion slots                            |                                                                           |
|---------------------------------------------------|-----|--------------------------------------------|---------------------------------------------------------------------------|
| USB 2.0 connectors *                              | 2   | PCI Express x1 (Gen 3.x) slots             | 1                                                                         |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors *            | 1   | PCI Express x16 (Gen 4.x) slots            | 1                                                                         |
| USB 3.2 Gen 2 (3.1 Gen 2) connectors *            | 1   | Number of M.2 (M) slots                    | 2                                                                         |
| Number of SATA III connectors *                   | 4   | 1st M.2 largest key size                   | 25110                                                                     |
| Front panel audio connector                       | ✓   | 1st M.2 highest PCI Express generation     | 4.0                                                                       |
| Front panel connector                             | ✓   | 2nd M.2 largest key size                   | 25110                                                                     |
| ATX Power connector (24-pin)                      | ✓   | 2nd M.2 highest PCI Express generation     | 4.0                                                                       |
| CPU fan connector                                 | ✓   | <b>BIOS</b>                                |                                                                           |
| Number of CPU fan connectors                      | 1   | BIOS type *                                | UEFI AMI                                                                  |
| Number of chassis fan connectors                  | 3   | BIOS memory size                           | 256 Mbit                                                                  |
| EPS power connector (8-pin)                       | ✓   | ACPI version                               | 5.0                                                                       |
| Number of EPS power connectors (8-pin)            | 1   | Clear CMOS jumper                          | ✓                                                                         |
| TPM connector                                     | ✓   | Desktop Management Interface (DMI) version | 2.7                                                                       |
| Serial port headers                               | 1   | System Management BIOS (SMBIOS) version    | 2.7                                                                       |
| 12V power connector                               | ✓   | <b>Logistics data</b>                      |                                                                           |
| RGB LED pin header                                | ✓   | Country of origin                          | China                                                                     |
| Number of RGB LED pin headers                     | 3   | Products per shipping (inner) case         | 1 pc(s)                                                                   |
| Rear panel I/O ports                              |     | <b>Battery</b>                             |                                                                           |
| USB 2.0 ports quantity *                          | 4   | Battery weight                             | 3 g                                                                       |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2   | Lithium weight per battery                 | 0.07 g                                                                    |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 1   | Number of battery cells                    | 1                                                                         |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * | 1   | Battery technology                         | Lithium-Manganese Dioxide (LiMnO2)                                        |
| Ethernet LAN (RJ-45) ports *                      | 1   | Battery type                               | CR2032                                                                    |
| PS/2 ports quantity                               | 1   | <b>Packaging data</b>                      |                                                                           |
| HDMI ports quantity *                             | 1   | Package width                              | 270 mm                                                                    |
| HDMI version                                      | 2.1 | Package depth                              | 268 mm                                                                    |
| DisplayPorts quantity                             | 2   | Package height                             | 68 mm                                                                     |
| DisplayPort version                               | 1.4 | Package weight                             | 1.9 kg                                                                    |
|                                                   |     | <b>Weight &amp; dimensions</b>             |                                                                           |
|                                                   |     | Width                                      | 244 mm                                                                    |
|                                                   |     | Depth                                      | 244 mm                                                                    |
|                                                   |     | Height                                     | 35 mm                                                                     |
|                                                   |     | <b>Packaging content</b>                   |                                                                           |
|                                                   |     | Batteries included                         | ✓                                                                         |
|                                                   |     | Antenna included                           | ✓                                                                         |
|                                                   |     | Screws 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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### **Catalog Object Cloud**



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