

Gigabyte B650 AORUS PRO AX Motherboard - Supports AMD Ryzen 8000 CPUs, 16*+2+1 Phases Digital VRM, up to 8000MHz DDR5 (OC), 1xPCIe 5.0 + 2xPCIe 4.0 M.2, Wi-Fi 6E, 2.5GbE LAN, USB 3.2 Gen 2



Brand : Gigabyte

Product code: B650 AORUS PRO AX

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ATX, Socket AM5, AMD B650 chipset, 4x DDR5 DIMM, Wi-Fi 6E, AMI UEFI BIOS

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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 | HDMI version | 2.1 |
| Processor socket * | Socket AM5 | Headphone outputs | 2 |
| Compatible processor series * | AMD Ryzen™ 5, AMD Ryzen 7 7th Gen, AMD Ryzen 9 7th Gen | Microphone in | ✓ |
| Supported processor sockets | Socket AM5 | S/PDIF out port | ✓ |
| Maximum internal memory supported by processor | 192 GB | WiFi-AP antenna jack | 2 |
| Memory | | USB connector type | USB Type-A, USB Type-C |
| Supported memory types * | DDR5-SDRAM | Network | |
| Number of memory slots * | 4 | Ethernet LAN | ✓ |
| Memory slots type | DIMM | Ethernet interface type | 2.5 Gigabit Ethernet |
| Memory channels | Dual-channel | Wi-Fi * | ✓ |
| Non-ECC | ✓ | Top Wi-Fi standard | Wi-Fi 6E (802.11ax) |
| Supported memory clock speeds | 4400,4800,5200,5600,6000,6200,6400,6600,6666,6800,7000,7200,7600,7800,8000 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 | AMD RZ616 |
| Maximum internal memory * | 192 GB | Bluetooth | ✓ |
| Supported memory module capacities | 1GB, 2GB, 4GB, 8GB, 12GB, 16GB, 32GB, 48GB | Bluetooth version | 5.2 |
| Unbuffered memory | ✓ | Features | |
| Storage controllers | | Motherboard chipset * | AMD B650 |
| Supported storage drive types | HDD & SSD | Audio chip | Realtek ALC1220-VB |
| Supported storage drive interfaces * | M.2, PCI Express 4.0, PCI Express 5.0, SATA III | Audio output channels * | 7.1 channels |
| Number of HDDs supported | 4 | Product colour | Black |
| Number of storage drives supported | 7 | PC health monitoring | Fan, Noise, Temperature, Voltage, Water cooling |
| RAID support | ✓ | Component for * | PC |
| RAID levels | 0, 1, 10 | Motherboard form factor * | ATX |
| Graphics | | Motherboard chipset family * | AMD |
| Parallel processing technology support * | Crossfire | Power source type | ATX |
| Maximum resolution | 4096 x 2160 pixels | Windows operating systems supported | Windows 10 x64, Windows 11 x64 |
| HDCP | ✓ | Expansion slots | |
| DirectX version | 12.0 | PCI Express x1 slots | 1 |
| Internal I/O | | | |
| USB 2.0 connectors * | 2 | | |

| Internal I/O | | Expansion slots | |
|---|---|--|---|
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * | 1 | PCI Express x16 slots | 2 |
| USB 3.2 Gen 2 (3.1 Gen 2) connectors * | 1 | Number of M.2 (M) slots | 3 |
| Number of SATA III connectors * | 4 | BIOS | |
| Front panel audio connector | ✓ | BIOS type * | UEFI AMI |
| Front panel connector | ✓ | BIOS memory size | 256 Mbit |
| ATX Power connector (24-pin) | ✓ | ACPI version | 5.0 |
| CPU fan connector | ✓ | Clear CMOS jumper | ✓ |
| EPS power connector (8-pin) | ✓ | Desktop Management Interface (DMI) version | 2.7 |
| TPM connector | ✓ | System Management BIOS (SMBIOS) version | 2.7 |
| Serial port headers | 1 | Logistics data | |
| Thunderbolt headers | 1 | Country of origin | Taiwan |
| 12V power connector | ✓ | Products per shipping (inner) case | 1 pc(s) |
| RGB LED pin header | ✓ | Battery | |
| Rear panel I/O ports | | Battery weight | 3 g |
| USB 2.0 ports quantity * | 4 | Lithium weight per battery | 0.07 g |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 4 | Number of battery cells | 1 |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity * | 1 | Battery technology | Lithium-Manganese Dioxide (LiMnO ₂) |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 3 | Battery type | CR2032 |
| Ethernet LAN (RJ-45) ports * | 1 | Packaging data | |
| HDMI ports quantity * | 1 | Package width | 335 mm |
| | | Package depth | 270 mm |
| | | Package height | 80 mm |
| | | Package weight | 2.53 kg |
| | | Weight & dimensions | |
| | | Width | 305 mm |
| | | Depth | 244 mm |
| | | Height | 35 mm |
| | | Packaging content | |
| | | Cables included | SATA |
| | | Batteries included | ✓ |
| | | Bundled software | Norton Internet Security |
| | | Technical details | |
| | | Warranty period | 3 year(s) |



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