

GIGABYTE B850 AI TOP Motherboard - AMD Ryzen 9000 Series CPUs, 16+2+2 Phases Digital VRM, up to 8600MHz DDR5 (OC), 2xPCIe 5.0 + 1xPCIe 4.0 M.2, 10 LAN, WIFI 7, USB 3.2 Gen 2x2

Brand : GIGABYTE

Product code: B850 AI TOP

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- Twin 16+2+2 Phases Digital VRM with 110A Smart Power Stage
- Dual Channel DDR5 4\*DIMMs
- PCIe Gen5 with PCIe UD Slot X & EZ-Latch Plus
- M.2 Gen5 with EZ-Latch Plus
- Full Covered MOSFET Heatsinks & x16 Backplates
- Wi-Fi 7 with WIFI EZ-Plug & Directional Antenna
- Dual 10GbE LAN, Q-Flash Plus

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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                                |  | Network                             |   |
|--|--|-------------------------------------|---|
| Processor manufacturer *                 | AMD  | Ethernet LAN                        | ✓   |
| Processor socket *                       | Socket AM5   | Ethernet interface type             | 10 Gigabit Ethernet   |
| Compatible processor series *            | AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series            | Wi-Fi *                             | ✓   |
|  |  | Top Wi-Fi standard                  | Wi-Fi 7 (802.11be)  |
| Supported processor sockets              | Socket AM5   |                                     | 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), Wi-Fi 7 (802.11be) |
| Memory                                   |  | Wi-Fi standards                     |   |
| Supported memory types *                 | DDR5-SDRAM   | WLAN controller model               | Realtek RTL8922AE   |
| Number of memory slots *                 | 4  |                                     |   |
| Memory slots type                        | DIMM   | Bluetooth                           | ✓   |
| Memory channels                          | Dual-channel   | Bluetooth version                   | 5.4   |
| ECC compatibility                        | ECC & Non-ECC  | Features                            |   |
| Supported memory clock speeds            | 4400,4800,5200,5600,6000,6200,6400,6600,6800,7000,7200,7600,7800,8000,8600 MHz | Motherboard chipset *               | AMD B850  |
| Supported memory clock speed (max)       | 8600 MHz   | Audio chip                          | Realtek ALC1220   |
| Maximum internal memory *                | 256 GB   | Audio output channels *             | 7.1 channels  |
| Unbuffered memory                        | ✓  | Product colour                      | Brown   |
| Maximum internal memory per slot         | 64 GB  | PC health monitoring                | Fan, Temperature, Voltage, Water cooling  |
| Storage controllers                      |  | Component for *                     | PC  |
| Supported storage drive types            | HDD & SSD  | Motherboard form factor *           | ATX   |
| Supported storage drive interfaces *     | M.2, SATA III  | Motherboard chipset family *        | AMD   |
| Number of HDDs supported                 | 4  | Cooling type                        | Passive   |
| Number of storage drives supported       | 7  | Power source type                   | ATX   |
| RAID support                             | ✓  | Windows operating systems supported | Windows 10 x64, Windows 11 x64  |
| RAID levels                              | 0, 1, 10   | Expansion slots                     |   |
| Graphics                                 |  | PCI Express x16 (Gen 4.x) slots     | 1   |
| Parallel processing technology support * | Not supported  | PCI Express x32 (Gen 5.x) slots     | 2   |
| Maximum resolution                       | 4096 x 2160 pixels   | Number of M.2 (M) slots             | 3   |
| HDCP                                     | ✓  | 1st M.2 largest key size            | 25110   |
| DirectX version                          | 12.0   |                                     |   |
| Internal I/O                             |  |                                     |   |
| USB 2.0 connectors *                     | 2  |                                     |   |

| Internal I/O                                      |   | Expansion slots                            |  |
|---|---|--|--|
| USB 3.2 Gen 1 (3.1 Gen 1) connectors *            | 1 | 1st M.2 highest PCI Express generation     | 5.0  |
| USB 3.2 Gen 2x2 connectors                        | 1 | 2nd M.2 largest key size                   | 22110  |
| Number of SATA III connectors *                   | 4 | 2nd M.2 highest PCI Express generation     | 5.0  |
| Front panel audio connector                       | ✓ | 3rd M.2 largest key size                   | 22110  |
| Front panel connector                             | ✓ | 3rd M.2 highest PCI Express generation     | 4.0  |
| ATX Power connector (24-pin)                      | ✓ | BIOS                                       |  |
| CPU fan connector                                 | ✓ | BIOS type *                                | UEFI AMI   |
| Number of CPU fan connectors                      | 2 | BIOS memory size                           | 256 Mbit   |
| Number of chassis fan connectors                  | 1 | ACPI version                               | 5.0  |
| Peripheral (Molex) power connectors (4-pin)       | 1 | Clear CMOS jumper                          | ✓  |
| EPS power connector (8-pin)                       | ✓ | Clear CMOS button                          | ✓  |
| Number of EPS power connectors (8-pin)            | 1 | Desktop Management Interface (DMI) version | 2.7  |
| TPM connector                                     | ✓ | System Management BIOS (SMBIOS) version    | 2.7  |
| Serial port headers                               | 1 | Logistics data                             |  |
| 12V power connector                               | ✓ | Country of origin                          | China  |
| Number of water pump connectors                   | 1 | Products per shipping (inner) case         | 1 pc(s)  |
| RGB LED pin header                                | ✓ | Battery                                    |  |
| Number of RGB LED pin headers                     | 4 | Battery weight                             | 3 g  |
| Rear panel I/O ports                              |   | Lithium weight per battery                 | 0.07 g   |
| USB 2.0 ports quantity *                          | 4 | Number of battery cells                    | 1  |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 4 | Battery technology                         | Lithium-Manganese Dioxide (LiMnO2)                                       |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 3 | Battery type                               | CR2032   |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * | 1 | Packaging data                             |  |
| Ethernet LAN (RJ-45) ports *                      | 1 | Package width                              | 335 mm   |
| HDMI ports quantity *                             | 1 | Package depth                              | 270 mm   |
| DisplayPorts quantity                             | 1 | Package height                             | 80 mm  |
| Headphone outputs                                 | 1 | Package weight                             | 3 kg   |
| Microphone in                                     | ✓ | Weight & dimensions                        |  |
| WiFi-AP antenna jack                              | 2 | Width                                      | 305 mm   |
|   |   | Depth                                      | 244 mm   |
|   |   | Height                                     | 35 mm  |
|   |   | Packaging content                          |  |
|   |   | Batteries included                         | ✓  |
|   |   | Antenna included                           | ✓  |
|   |   | Screws included                            | ✓  |
|   |   | Bundled software                           | Norton Internet Security (OEM version) LAN bandwidth management software |
|   |   | Other features                             |  |
|   |   | Weight                                     | 2.69 kg  |
|   |   | Technical details                          |  |
|   |   | Warranty period                            | 3 year(s)  |



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### Catalog Object Cloud



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