GIGABYTE

# 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

| | |
|---|---|
| Processor manufacturer * | AMD |
| Processor socket * | Socket AM5 |
| Compatible processor series * | AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series |
| Supported processor sockets | Socket AM5 |

### Memory

| | |
|---|---|
| Supported memory types * | DDR5-SDRAM |
| Number of memory slots * | 4 |
| Memory slots type | DIMM |
| Memory channels | Dual-channel |
| ECC compatibility | ECC & Non-ECC |
| Supported memory clock speeds | 4400,4800,5200,5600,6000,6200,6400,6600,6800,7000,7200,7600,7800,8000,8600 MHz |
| Supported memory clock speed (max) | 8600 MHz |
| Maximum internal memory * | 256 GB |
| Unbuffered memory | ✔ |
| Maximum internal memory per slot | 64 GB |

## Storage controllers

| | |
|---|---|
| Supported storage drive types | HDD & SSD |
| Supported storage drive interfaces * | M.2, SATA III |
| Number of HDDs supported | 4 |
| Number of storage drives supported | 7 |
| RAID support | ✔ |
| RAID levels | 0, 1, 10 |

## Graphics

| | |
|---|---|
| Parallel processing technology support * | Not supported |
| Maximum resolution | 4096 x 2160 pixels |
| HDCP | ✔ |
| DirectX version | 12.0 |

## Internal I/O

| | |
|---|---|
| USB 2.0 connectors * | 2 |

## Network

| | |
|---|---|
| Ethernet LAN | ✔ |
| Ethernet interface type | 10 Gigabit Ethernet |
| Wi-Fi * | ✔ |
| Top Wi-Fi standard | Wi-Fi 7 (802.11be) |
| 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), Wi-Fi 7 (802.11be) |
| WLAN controller model | Realtek RTL8922AE |
| Bluetooth | ✔ |
| Bluetooth version | 5.4 |

## Features

| | |
|---|---|
| Motherboard chipset * | AMD B850 |
| Audio chip | Realtek ALC1220 |
| Audio output channels * | 7.1 channels |
| Product colour | Brown |
| PC health monitoring | Fan, Temperature, Voltage, Water cooling |
| Component for * | PC |
| Motherboard form factor * | ATX |
| Motherboard chipset family * | AMD |
| Cooling type | Passive |
| Power source type | ATX |
| Windows operating systems supported | Windows 10 x64, Windows 11 x64 |

## Expansion slots

| | |
|---|---|
| PCI Express x16 (Gen 4.x) slots | 1 |
| PCI Express x32 (Gen 5.x) slots | 2 |
| Number of M.2 (M) slots | 3 |
| 1st M.2 largest key size | 25110 |

## Internal I/O

| | |
|---|---|
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * | 1 |
| USB 3.2 Gen 2x2 connectors | 1 |
| Number of SATA III connectors * | 4 |
| Front panel audio connector | ✔ |
| Front panel connector | ✔ |
| ATX Power connector (24-pin) | ✔ |
| CPU fan connector | ✔ |
| Number of CPU fan connectors | 2 |
| Number of chassis fan connectors | 1 |
| Peripheral (Molex) power connectors (4-pin) | 1 |
| EPS power connector (8-pin) | ✔ |
| Number of EPS power connectors (8-pin) | 1 |
| TPM connector | ✔ |
| Serial port headers | 1 |
| 12V power connector | ✔ |
| Number of water pump connectors | 1 |
| RGB LED pin header | ✔ |
| Number of RGB LED pin headers | 4 |

## Rear panel I/O ports

| | |
|---|---|
| USB 2.0 ports quantity * | 4 |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 4 |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 3 |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * | 1 |
| Ethernet LAN (RJ-45) ports * | 1 |
| HDMI ports quantity * | 1 |
| DisplayPorts quantity | 1 |
| Headphone outputs | 1 |
| Microphone in | ✔ |
| WiFi-AP antenna jack | 2 |

## Expansion slots

| | |
|---|---|
| 1st M.2 highest PCI Express generation | 5.0 |
| 2nd M.2 largest key size | 22110 |
| 2nd M.2 highest PCI Express generation | 5.0 |
| 3rd M.2 largest key size | 22110 |
| 3rd M.2 highest PCI Express generation | 4.0 |

## 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 | 3 kg |

## Weight & dimensions

| | |
|---|---|
| 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**