

GIGABYTE B850 AI TOP Motherboard - AMD Ryzen 9000 Series CPUs, 16+2+2 Phases Digital VRM, up to 5200MHz 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	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)
Memory		WLAN controller model	Realtek RTL8922AE
Supported memory types *	DDR5-SDRAM	Bluetooth	✓
Number of memory slots *	4	Bluetooth version	5.4
Memory slots type	DIMM	Features	
Memory channels	Dual-channel	Motherboard chipset *	AMD B850
ECC compatibility	Non-ECC	Audio chip	Realtek ALC1220
Supported memory clock speeds	4400,4800,5200 MHz	Audio output channels *	7.1 channels
Supported memory clock speed (max)	5200 MHz	Product colour	Brown
Maximum internal memory *	256 GB	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Unbuffered memory	✓	Component for *	PC
Maximum internal memory per slot	64 GB	Motherboard form factor *	ATX
Storage controllers		Motherboard chipset family *	AMD
Supported storage drive types	HDD & SSD	Power source type	ATX
Supported storage drive interfaces *	M.2, SATA III	Windows operating systems supported	Windows 10 x64, Windows 11 x64
Number of HDDs supported	4	Expansion slots	
Number of storage drives supported	7	PCI Express x16 (Gen 4.x) slots	1
RAID support	✓	PCI Express x32 (Gen 5.x) slots	2
RAID levels	0, 1, 10	Number of M.2 (M) slots	3
Graphics		1st M.2 largest key size	25110
Parallel processing technology support *	Not supported		

Graphics		Expansion slots	
Maximum resolution	4096 x 2160 pixels	1st M.2 highest PCI Express generation	5.0
HDCP	✓	2nd M.2 largest key size	22110
DirectX version	12.0	2nd M.2 highest PCI Express generation	5.0
Internal I/O		3rd M.2 largest key size	22110
USB 2.0 connectors *	2	3rd M.2 highest PCI Express generation	4.0
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	BIOS	
USB 3.2 Gen 2x2 connectors	1	BIOS type *	UEFI AMI
Number of SATA III connectors *	4	BIOS memory size	256 Mbit
Front panel audio connector	✓	ACPI version	5.0
Front panel connector	✓	Clear CMOS jumper	✓
ATX Power connector (24-pin)	✓	Clear CMOS button	✓
CPU fan connector	✓	Desktop Management Interface (DMI) version	2.7
Number of CPU fan connectors	2	System Management BIOS (SMBIOS) version	2.7
Number of chassis fan connectors	3	Logistics data	
Peripheral (Molex) power connectors (4-pin)	1	Country of origin	China
EPS power connector (8-pin)	✓	Products per shipping (inner) case	1 pc(s)
Number of EPS power connectors (8-pin)	1	Battery	
TPM connector	✓	Battery weight	3 g
Serial port headers	1	Lithium weight per battery	0.07 g
12V power connector	✓	Number of battery cells	1
Number of water pump connectors	2	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
RGB LED pin header	✓	Battery type	CR2032
Number of RGB LED pin headers	4	Packaging data	
Rear panel I/O ports		Package width	335 mm
USB 2.0 ports quantity *	4	Package depth	270 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Package height	80 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3	Package weight	3 kg
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1	Weight & dimensions	
Ethernet LAN (RJ-45) ports *	1	Width	305 mm
HDMI ports quantity *	1	Depth	244 mm
DisplayPorts quantity	1	Height	35 mm
Headphone outputs	1	Packaging content	
Microphone in	✓	Batteries included	✓
WiFi-AP antenna jack	2	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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