

GIGABYTE Z890 AORUS XTREME AI TOP Motherboard - Supports Intel Core Ultra (Series 2) CPUs, 22+1+2 phases VRM, up to 9500MHz DDR5 (OC), PCIe 5.0 M.2, Wi-Fi 7, Thunderbolt 5

Brand : GIGABYTE

Product code: Z890 A XTREME AI TOP

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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 *	Intel	LAN controller	Marvell AQtion AQC113C
Processor socket *	LGA 1851 (Socket V1)	Wi-Fi *	✓
Compatible processor series *	Intel Core Ultra (Series 2)	Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Supported processor sockets	LGA 1851	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)
Maximum internal memory supported by processor	256 GB		
Memory		WLAN controller model	Intel Wi-Fi 7 BE200
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 *	Intel Z890
ECC compatibility	ECC & Non-ECC	Audio chip	ESS ES9280AC + ESS ES9080
Supported memory clock speeds	5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600,7800,7950,8000,8200,8266,8400,8600,9500 MHz	Audio output channels *	2.0 channels
Supported memory clock speed (max)	9500 MHz	Product colour	Black
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 *	Extended ATX
Storage controllers		Motherboard chipset family *	Intel
Supported storage drive types	HDD & SSD	Windows operating systems supported	Windows 11 x64
Supported storage drive interfaces *	M.2, SATA III	Expansion slots	
Number of HDDs supported	4	PCI Express x16 (Gen 4.x) slots	1
Number of storage drives supported	8	PCI Express x16 (Gen 5.x) slots	2
RAID support	✓	Number of M.2 (M) slots	4
RAID levels	0, 1, 5, 10	1st M.2 largest key size	25110
Graphics		1st M.2 highest PCI Express generation	5.0
Parallel processing technology support *	Not supported	2nd M.2 largest key size	25110
Maximum resolution	7680 x 4320 pixels	2nd M.2 highest PCI Express generation	4.0
HDCP	✓	3rd M.2 largest key size	22110
DirectX version	12.0	3rd M.2 highest PCI Express generation	4.0
Internal I/O			
USB 2.0 connectors *	2		
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1		
USB 3.2 Gen 2x2 connectors	2		
Number of SATA III connectors *	4		
Front panel connector	✓		

Internal I/O		Expansion slots	
ATX Power connector (24-pin)	✓	4th M.2 largest key size	22110
CPU fan connector	✓	4th M.2 highest PCI Express generation	4.0
Number of CPU fan connectors	2	BIOS	
Number of chassis fan connectors	3	BIOS type *	UEFI AMI
EPS power connector (8-pin)	✓	BIOS memory size	256 Mbit
Number of EPS power connectors (8-pin)	2	ACPI version	5.0
Thunderbolt headers	1	Clear CMOS jumper	✓
Number of water pump connectors	2	Clear CMOS button	✓
Number of temperature sensor headers	2	Desktop Management Interface (DMI) version	2.7
Number of noise detection headers	1	System Management BIOS (SMBIOS) version	2.7
RGB LED pin header	✓	Logistics data	
Number of RGB LED pin headers	4	Country of origin	Taiwan
Rear panel I/O ports		Products per shipping (inner) case	1 pc(s)
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	10	Battery	
Ethernet LAN (RJ-45) ports *	2	Battery weight	3 g
Headphone outputs	1	Lithium weight per battery	0.07 g
Microphone in	✓	Number of battery cells	1
S/PDIF out port	✓	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
Thunderbolt ports quantity	2	Battery type	CR2032
WiFi-AP antenna jack	2	Packaging data	
Network		Package width	386 mm
Ethernet LAN	✓	Package depth	370 mm
Ethernet interface type	10 Gigabit Ethernet	Package height	140 mm
		Package weight	6.7 kg
		Weight & dimensions	
		Width	304.8 mm
		Depth	305 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	5.03 kg
		Technical details	
		Warranty period	3 year(s)



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