

GIGABYTE Z890 AORUS XTREME AI TOP Motherboard - Supports Intel Core Ultra (Series 2) CPUs, 22+1+2 phases VRM, up to 9500MHz DDR5 (OC), 1xPCIe 5.0 M.2 + 3xPCIe 4.0 M.2, Wi-Fi 7, 10GbE LAN, Thunderbolt 5

Brand : GIGABYTE

Product code: Z890 A XTREME AI TOP

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Processor		Network	
Processor manufacturer *	Intel	Ethernet interface type	10 Gigabit Ethernet
Processor socket *	LGA 1851 (Socket V1)	LAN controller	Marvell AQtion AQC113C
Compatible processor series *	Intel Core Ultra (Series 2)	Wi-Fi *	✓
Supported processor sockets	LGA 1851	Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Maximum internal memory supported by processor	256 GB	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)
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	5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600,7800,7900,7950,8000,8200,8266,8400,8600,9500 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		
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)	✓	3rd M.2 highest PCI Express generation	4.0
CPU fan connector	✓	4th M.2 largest key size	22110
Number of CPU fan connectors	2	4th M.2 highest PCI Express generation	4.0
Number of chassis fan connectors	3	BIOS	
EPS power connector (8-pin)	✓	BIOS type *	UEFI AMI
Number of EPS power connectors (8-pin)	2	BIOS memory size	256 Mbit
Thunderbolt headers	1	ACPI version	5.0
Number of water pump connectors	2	Clear CMOS jumper	✓
Number of temperature sensor headers	2	Clear CMOS button	✓
Number of noise detection headers	1	Desktop Management Interface (DMI) version	2.7
RGB LED pin header	✓	System Management BIOS (SMBIOS) version	2.7
Number of RGB LED pin headers	4	Logistics data	
Rear panel I/O ports		Country of origin	Taiwan
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	10	Products per shipping (inner) case	1 pc(s)
Ethernet LAN (RJ-45) ports *	2	Battery	
Headphone outputs	1	Battery weight	3 g
Microphone in	✓	Lithium weight per battery	0.07 g
S/PDIF out port	✓	Number of battery cells	1
Thunderbolt ports quantity	2	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
WiFi-AP antenna jack	2	Battery type	CR2032
Network		Packaging data	
Ethernet LAN	✓	Package width	386 mm
		Package depth	370 mm
		Package height	140 mm
		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
		Technical details	
		Warranty period	3 year(s)



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Publication date: 14-NOV-2024. Prints or copies of Information are only valid on the printed Publication date