

GIGABYTE Z890 AORUS MASTER AI TOP Motherboard - Supports Intel Core Ultra (Series 2) CPUs, 20+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 4

Brand : GIGABYTE

Product code: Z890 A MASTER AI TOP

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Processor		Network	
Processor manufacturer *	Intel	Ethernet LAN	✓
Processor socket *	LGA 1851 (Socket V1)	Ethernet interface type	10 Gigabit Ethernet
Compatible processor series *	Intel Core Ultra (Series 2)	LAN controller	Marvell AQtion AQC113C
Supported processor sockets	LGA 1851	Wi-Fi *	✓
Maximum internal memory supported by processor	256 GB	Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Memory	Supported memory types *	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)
	Number of memory slots *		
	Memory slots type	WLAN controller model	Intel Wi-Fi 7 BE200
	Memory channels		
	ECC compatibility	Bluetooth	✓
	Supported memory clock speeds MHz	Bluetooth version	5.4
	Supported memory clock speed (max)	Features	Motherboard chipset * Intel Z890
	Maximum internal memory *		
	Supported memory module capacities	Audio output channels *	2.0 channels
	Unbuffered memory		
	Maximum internal memory per slot	Product colour	Black
Storage controllers		PC health monitoring	Fan, Temperature, Voltage, Water cooling
Supported storage drive types	HDD & SSD	Component for *	PC
Supported storage drive interfaces *	M.2, SATA III	Motherboard form factor *	Extended ATX
Number of HDDs supported	4	Motherboard chipset family *	Intel
Number of storage drives supported	8	Windows operating systems supported	Windows 11 x64
RAID support	✓	Expansion slots	
RAID levels	0, 1, 5, 10	PCI Express x16 (Gen 4.x) slots	1
Graphics		PCI Express x16 (Gen 5.x) slots	2
Parallel processing technology support *	Not supported	Number of M.2 (M) slots	4
Maximum resolution	5120 x 2880 pixels	1st M.2 largest key size	25110
HDCP	✓	1st M.2 highest PCI Express generation	5.0
DirectX version	12.0	2nd M.2 largest key size	22110
Internal I/O		2nd M.2 highest PCI Express generation	4.0
USB 2.0 connectors *	2	3rd M.2 largest key size	22110
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2		
USB 3.2 Gen 2x2 connectors	1		
Number of SATA III connectors *	4		

Internal I/O		Expansion slots	
Front panel audio connector	✓	3rd M.2 highest PCI Express generation	4.0
Front panel connector	✓	4th M.2 largest key size	22110
ATX Power connector (24-pin)	✓	4th M.2 highest PCI Express generation	4.0
CPU fan connector	✓		
Number of CPU fan connectors	2		
Number of chassis fan connectors	8		
EPS power connector (8-pin)	✓		
Number of EPS power connectors (8-pin)	2		
TPM connector	✓		
Number of water pump connectors	5		
Number of temperature sensor headers	2		
Number of noise detection headers	1		
RGB LED pin header	✓		
Number of RGB LED pin headers	5		
Rear panel I/O ports		BIOS	
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	10	BIOS type *	UEFI AMI
Ethernet LAN (RJ-45) ports *	2	BIOS memory size	256 Mbit
DisplayPort version	2.1	ACPI version	5.0
Headphone outputs	1	Clear CMOS jumper	✓
Microphone in	✓	Clear CMOS button	✓
Thunderbolt ports quantity	2	Desktop Management Interface (DMI) version	2.7
WiFi-AP antenna jack	2	System Management BIOS (SMBIOS) version	2.7
		Logistics data	
		Country of origin	Taiwan
		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	400 mm
		Package depth	335 mm
		Package height	430 mm
		Weight & dimensions	
		Width	305 mm
		Depth	285 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