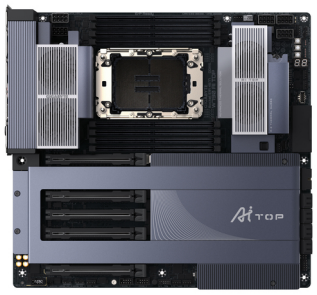
GIGABYTE

GIGABYTE W790 AI TOP Motherboard - Supports Intel Xeon CPUs, 16+2+2 phases VRM, up to 5600MHz DDR5 (OC), 4xPCIe 5.0 + 2xPCIe 4.0 M.2, Wi-Fi 7, 10 GbE LAN, Thunderbolt 4





Brand : GIGABYTE

Product code: W790 AI TOP

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Processor	
Processor manufacturer *	Intel
Processor socket *	LGA 4677 (Socket E)
Compatible processor series *	Intel® Xeon®
Intel Xeon series	W-2400, W-3400, W3500, W-2500
Memory	
Supported memory types *	DDR5-SDRAM
Number of memory slots *	8
Memory slots type	DIMM
Memory channels	Octa-channel
ECC compatibility	ECC
Supported memory clock speeds	4800,5600 MHz
Supported memory clock speed (max)	5600 MHz
Maximum internal memory *	2 TB
Maximum RDIMM memory	256 GB
Storage controllers	
Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, SATA III
Number of HDDs supported	8
Number of storage drives supported	14
RAID support	✔
RAID levels	0, 1, 5, 10
Graphics	
Parallel processing technology support *	Not supported
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	1
Number of SATA III connectors *	8
Audio connector	✔
Front panel audio connector	✔
ATX Power connector (24-pin)	✔
CPU fan connector	✔

Network	
Bluetooth version	5.4
Features	
Motherboard chipset *	Intel W790
Audio chip	Realtek ALC897
Audio output channels *	7.1 channels
Product colour	Black
PC health monitoring	Fan, Temperature, Voltage, Water cooling
Component for *	Server
Motherboard form factor *	Extended ATX
Motherboard chipset family *	Intel
Power source type	ATX
Windows operating systems supported	Windows 11 x64
Expansion slots	
PCI Express x16 (Gen 5.x) slots	5
Number of M.2 (M) slots	6
1st M.2 largest key size	2280
1st M.2 highest PCI Express generation	5.0
2nd M.2 largest key size	2280
2nd M.2 highest PCI Express generation	5.0
3rd M.2 largest key size	2280
3rd M.2 highest PCI Express generation	5.0
4th M.2 largest key size	2280
4th M.2 highest PCI Express generation	5.0
5th M.2 largest key size	2280
5th M.2 highest PCI Express generation	4.0
6th M.2 largest key size	2280
6th M.2 highest PCI Express generation	4.0
BIOS	
BIOS type *	UEFI AMI

Internal I/O	
Number of CPU fan connectors	2
Number of chassis fan connectors	6
EPS power connector (8-pin)	✔
Number of EPS power connectors (8-pin)	4
TPM connector	✔
Number of water pump connectors	1
Number of temperature sensor headers	2
RGB LED pin header	✔
Number of RGB LED pin headers	4

Rear panel I/O ports	
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 *	2
Ethernet LAN (RJ-45) ports *	2
DisplayPorts quantity	2
Headphone outputs	1
Line-in	✔
S/PDIF out port	✔
Digital audio optical out	1
Thunderbolt ports quantity	2
WiFi-AP antenna jack	2

Network	
Ethernet LAN	✔
Ethernet interface type	10 Gigabit Ethernet
LAN controller	Intel X710-AT2
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	Intel Wi-Fi 7 BE200
Bluetooth	✔

BIOS	
BIOS memory size	512 Mbit
ACPI version	5.0
Clear CMOS jumper	✔
Desktop Management Interface (DMI) version	2.7
System Management BIOS (SMBIOS) version	2.7

Processor special features	
Trusted Platform Module (TPM)	✔

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	363 mm
Package depth	383 mm
Package height	93 mm
Package weight	5.7 kg

Weight & dimensions	
Width	305 mm
Depth	330 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	4.87 kg

Technical details	
Warranty period	3 year(s)

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Publication date: 23-NOV-2026. Prints or copies of Information are only valid on the printed Publication date