

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-2B

Product name : 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

- Training your own AI on your desk
- Support 5th Gen Intel® Xeon® W processors
- Digital twin 16+2+2 phases VRM solution
- Ultimate Scalability : 5 * PCIe 5.0 x16 slots for Multi-GPU and 6*PCIe 5.0/4.0 M.2 slots
- Next-gen Connectivity : Dual Thunderbolt™ 4 Type-C with DP-Alt
- Blazing Fast Networks : Dual Server-grade 10GbE LAN & Wi-Fi 7 & directional Ultra-high gain antenna
- 8 Channel DDR5 : 8*SMD ECC R-DIMMs with Maximum 2TB capacity
- Reinforced Overall Thermal : VRM Thermal Armor Advanced & M.2 Thermal Guard Ext
- WIFI EZ-Plug : Quick and easy design for Wi-Fi antenna installation
- PCIe EZ-Latch Plus : PCIe slots with Quick Release & Screwless Design
- Friendly UI : AIO Fan Control, and Q-Flash Auto Scan in BIOS and SW
- New Power Monitor in HWinfo for real-time monitoring on CPU power phases
- PCIe UD Slot X : PCIe 5.0 x16 slot with 10X strength for graphics card

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Processor		Network	
Processor manufacturer *	Intel	Bluetooth version	5.4
Processor socket *	LGA 4677 (Socket E)	Features	
Compatible processor series *	Intel® Xeon®	Motherboard chipset *	Intel W790
Intel Xeon series	W-2400, W-3400, W3500, W-2500	Audio chip	Realtek ALC897
Memory		Audio output channels *	7.1 channels
Supported memory types *	DDR5-SDRAM	Product colour	Black
Number of memory slots *	8	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Memory slots type	DIMM	Component for *	Server
Memory channels	Octa-channel	Motherboard form factor *	Extended ATX
ECC compatibility	ECC	Motherboard chipset family *	Intel
Supported memory clock speeds	4800,5600 MHz	Power source type	ATX
Supported memory clock speed (max)	5600 MHz	Windows operating systems supported	Windows 11 x64
Maximum internal memory *	2 TB	Expansion slots	
Maximum RDIMM memory	256 GB	PCI Express x16 (Gen 5.x) slots	5
Storage controllers		Number of M.2 (M) slots	6
Supported storage drive types	HDD & SSD	1st M.2 largest key size	2280
Supported storage drive interfaces *	M.2, SATA III	1st M.2 highest PCI Express generation	5.0
Number of HDDs supported	8	2nd M.2 largest key size	2280
Number of storage drives supported	14	2nd M.2 highest PCI Express generation	5.0
RAID support	✓	3rd M.2 largest key size	2280
RAID levels	0, 1, 5, 10	3rd M.2 highest PCI Express generation	5.0
Graphics		4th M.2 largest key size	2280
Parallel processing technology support *	Not supported	4th M.2 highest PCI Express generation	5.0
Internal I/O		5th M.2 largest key size	2280
USB 2.0 connectors *	2	5th M.2 highest PCI Express generation	4.0
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	6th M.2 largest key size	2280
USB 3.2 Gen 2x2 connectors	1		
Number of SATA III connectors *	8		

Internal I/O		Expansion slots	
Audio connector	✓	6th M.2 highest PCI Express generation	4.0
Front panel audio connector	✓	BIOS	
ATX Power connector (24-pin)	✓	BIOS type *	UEFI AMI
CPU fan connector	✓	BIOS memory size	512 Mbit
Number of CPU fan connectors	2	ACPI version	5.0
Number of chassis fan connectors	6	Clear CMOS jumper	✓
EPS power connector (8-pin)	✓	Desktop Management Interface (DMI) version	2.7
Number of EPS power connectors (8-pin)	4	System Management BIOS (SMBIOS) version	2.7
TPM connector	✓	Processor special features	
Number of water pump connectors	1	Trusted Platform Module (TPM)	✓
Number of temperature sensor headers	2	Logistics data	
RGB LED pin header	✓	Country of origin	Taiwan
Number of RGB LED pin headers	4	Products per shipping (inner) case	1 pc(s)
Rear panel I/O ports		Battery	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Battery weight	3 g
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2	Lithium weight per battery	0.07 g
Ethernet LAN (RJ-45) ports *	2	Number of battery cells	1
DisplayPorts quantity	2	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
Headphone outputs	1	Battery type	CR2032
Line-in	✓	Packaging data	
S/PDIF out port	✓	Package width	363 mm
Digital audio optical out	1	Package depth	383 mm
Thunderbolt ports quantity	2	Package height	93 mm
WiFi-AP antenna jack	2	Package weight	5.7 kg
Network		Weight & dimensions	
Ethernet LAN	✓	Width	305 mm
Ethernet interface type	10 Gigabit Ethernet	Depth	330 mm
LAN controller	Intel X710-AT2	Height	35 mm
Wi-Fi *	✓	Packaging content	
Top Wi-Fi standard	Wi-Fi 7 (802.11be)	Batteries included	✓
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)	Antenna included	✓
		Screws included	✓
WLAN controller model	Intel Wi-Fi 7 BE200	Bundled software	Norton® Internet Security (OEM version) LAN bandwidth management software
Bluetooth	✓	Other features	
		Weight	4.87 kg
		Technical details	
		Warranty period	3 year(s)



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