

## Gigabyte Z790 UD motherboard Intel Z790 LGA 1700 ATX

**Brand :** Gigabyte

**Product code:** Z790 UD

**Product name :** Z790 UD

- Intel® Socket LGA 1700 Support 13th and 12th Gen Series Processors
  - Unparalleled Performance Twin 16\*+1+ Phases Digital VRM Solution
  - Dual Channel DDR5 4\*SMD DIMMs with XMP 3.0 Memory Module Support
  - Next Generation Storage 3\*PCIe 4.0 x4 M.2 Connectors
  - Advanced Thermal Design & M.2 Thermal Guard: To Ensure VRM Power Stability & M.2 SSD Performance
  - EZ-Latch PCIe 5.0 x16 Slot with Quick Release & Screwless Design
  - Fast Networks 2.5GbE LAN
  - Extended Connectivity DP, HDMI, Front USB-C® 5Gb/s, Rear USB-C® 20Gb/s
  - Smart Fan 6 Features Multiple Temperature Sensors, Hybrid Fan Headers with FAN STOP
  - Q-Flash Plus Update BIOS Without Installing the CPU, Memory and Graphics Card
- Z790 UD Intel LGA 1700 ATX Motherboard, 4x DDR5 ~128GB, 3x PCI-E x16, 3x M.2, 6x SATA, 5x USB 3.2, 1x USB-C, 4x USB 2.0



Processor		Internal I/O	
Processor manufacturer *	Intel	RGB LED pin header	✓
Processor socket *	LGA 1700	Rear panel I/O ports	
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold	USB 2.0 ports quantity *	4
Supported processor sockets	LGA 1700	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4
Memory		USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1
Supported memory types *	DDR5-SDRAM	USB 3.2 Gen 2x2 Type-C ports quantity	1
Number of memory slots *	4	Ethernet LAN (RJ-45) ports *	1
Memory slots type	DIMM	HDMI ports quantity *	1
Memory channels	Dual-channel	HDMI version	2.0
ECC	✓	DisplayPorts quantity	1
Non-ECC	✓	DisplayPort version	1.2
Supported memory clock speeds	4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600 MHz	Headphone outputs	3
Supported memory clock speed (max)	7600 MHz	Microphone in	✓
Maximum internal memory *	128 GB	WiFi-AP antenna jack	2
Unbuffered memory	✓	USB connector type	USB Type-A, USB Type-C
Storage controllers		Network	
Supported storage drive types	HDD & SSD	Ethernet LAN	✓
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III	Ethernet interface type	2.5 Gigabit Ethernet
Number of storage drives supported	9	Wi-Fi *	✗
RAID support	✓	Features	
RAID levels	0, 1, 5, 10	Motherboard chipset *	Intel Z790
Graphics		Audio output channels *	7.1 channels
Parallel processing technology support *	Crossfire	PC health monitoring	Fan, Temperature, Voltage, Water cooling
Maximum resolution	4096 x 2304 pixels	Component for *	PC
HDCP	✓	Motherboard form factor *	ATX
Internal I/O		Motherboard chipset family *	Intel
USB 2.0 connectors *	2	Windows operating systems supported	Windows 10 x64, Windows 11 x64
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1		
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1		
Number of SATA III connectors *	6		

Internal I/O		Expansion slots	
S/DPDIF out connector	✓	PCI Express x1 slots	2
Front panel audio connector	✓	PCI Express x16 slots	4
Front panel connector	✓	Number of M.2 (M) slots	3
ATX Power connector (24-pin)	✓	<b>BIOS</b>	
CPU fan connector	✓	BIOS type *	UEFI AMI
EPS power connector (8-pin)	✓	BIOS memory size	256 Mbit
TPM connector	✓	ACPI version	5.0
Serial port headers	1	Clear CMOS jumper	✓
Thunderbolt headers	2	Desktop Management Interface (DMI) version	2.7
12V power connector	✓	System Management BIOS (SMBIOS) version	2.7
		<b>Weight &amp; dimensions</b>	
		Width	305 mm
		Depth	244 mm
		<b>Packaging content</b>	
		Cables included	SATA



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