GIGABYTE

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

Processor manufacturer *	Intel
Processor socket *	LGA 1700
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold
Supported processor sockets	LGA 1700

Memory

Supported memory types *	DDR5-SDRAM
Number of memory slots *	4
Memory slots type	DIMM
Memory channels	Dual-channel
ECC	✓
Non-ECC	✓
Supported memory clock speeds	4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600 MHz
Supported memory clock speed (max)	7600 MHz
Maximum internal memory *	128 GB
Unbuffered memory	✓

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III
Number of storage drives supported	9
RAID support	✓
RAID levels	0, 1, 5, 10

Graphics

Parallel processing technology support *	Crossfire
Maximum resolution	4096 x 2304 pixels
HDCP	✓

Internal I/O

USB 2.0 connectors *	2
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

RGB LED pin header	✓

Rear panel I/O ports

USB 2.0 ports quantity *	4
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 *	1
USB 3.2 Gen 2x2 Type-C ports quantity	1
Ethernet LAN (RJ-45) ports *	1
HDMI ports quantity *	1
HDMI version	2.0
DisplayPorts quantity	1
DisplayPort version	1.2
Headphone outputs	3
Microphone in	✓
WiFi-AP antenna jack	2
USB connector type	USB Type-A, USB Type-C

Network

Ethernet LAN	✓
Ethernet interface type	2.5 Gigabit Ethernet
Wi-Fi *	✗

Features

Motherboard chipset *	Intel Z790
Audio output channels *	7.1 channels
PC health monitoring	Fan, Temperature, Voltage, Water cooling
Component for *	PC
Motherboard form factor *	ATX
Motherboard chipset family *	Intel
Windows operating systems supported	Windows 10 x64, Windows 11 x64

Internal I/O

S/PDIF out connector	✔
Front panel audio connector	✔
Front panel connector	✔
ATX Power connector (24-pin)	✔
CPU fan connector	✔
EPS power connector (8-pin)	✔
TPM connector	✔
Serial port headers	1
Thunderbolt headers	2
12V power connector	✔

Expansion slots

PCI Express x1 slots	2
PCI Express x16 slots	4
Number of M.2 (M) slots	3

BIOS

BIOS type *	UEFI AMI
BIOS memory size	256 Mbit
ACPI version	5.0
Clear CMOS jumper	✔
Desktop Management Interface (DMI) version	2.7
System Management BIOS (SMBIOS) version	2.7

Weight & dimensions

Width	305 mm
Depth	244 mm

Packaging content

Cables included	SATA

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