Gigabyte Z790 UD AX (REV. 1.0) motherboard
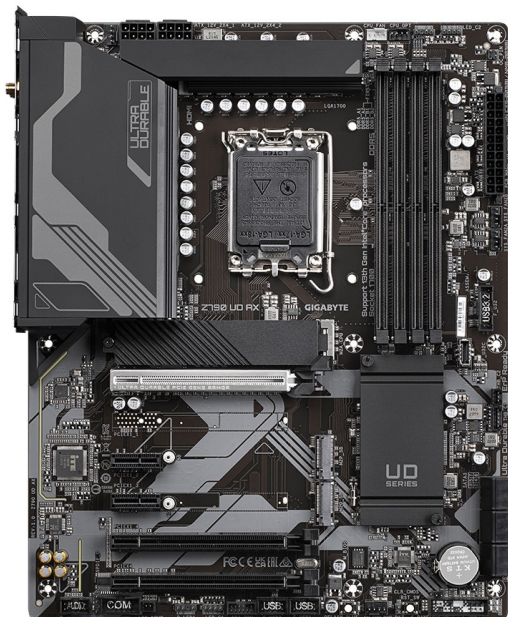
Artikel	129904
Herstellernummer	Z790 UD AX (REV. 1.0)
EAN	4719331850395
Gigabyte	

NPARALLELED PERFORMANCE

With the fast-moving technology changes, GIGABYTE always follows the latest trends and provides customers with advanced features and latest technologies. GIGABYTE motherboards are equipped with upgraded power solution, latest storage standards and outstanding connectivity to enable optimized performance for gaming.

Twin Digital VRM Design

To ensure maximum Turbo Boost and overclocking performance of Intel's new generation CPU, GIGABYTE UD series motherboard equip the best VRM design ever built with the highest quality components.

Design Ready for PCIe 5.0

PCIe 5.0 Design supports double the bandwidth of PCIe 4.0 and ensures that compatible with cutting-edge GPUs released in the next few years to their full capability.

Hybrid Cores Optimization

With new Intel Hybrid technology, GIGABYTE exclusively creates two new "CPU Upgrade" in BIOS profiles to meet different users' scenarios by adjusting P-Core and E-Core activation and voltage policy.

OUTSTANDING THERMAL DESIGN

GIGABYTE Motherboards' unparalleled performance is guaranteed by innovative and optimized thermal design to ensure the best CPU, Chipset, SSD stability and low temperatures under full load application and gaming performance.

GIGABYTE Ultra-Efficient M.2 Thermal Guard

With durability in mind, GIGABYTE provides a thermal solution for M.2 SSD devices. The M.2 Thermal Guard prevents throttling and bottlenecks from high speed M.2 SSDs as it helps to dissipate heat before it becomes an issue.

CONNECTIVITY

GIGABYTE Motherboards enable the ultimate connection experience with blazing data-transfer speeds through the next generation network, storage, and Wi-Fi connectivity.

802.11ax Wi-Fi 6E

The latest Wireless solution 802.11ax Wi-Fi 6E with new dedicated 6GHz band, enables gigabit wireless performance, provides smooth video streaming, better gaming experience, few dropped connections and speeds up to 2.4Gbps. Moreover, Bluetooth 5 provides 4X range over BT 4.2 and with faster transmission.

Connecting the Future - USB 3.2 Gen 2x2 Type-C®

Featuring the USB 3.2 Gen 2x2 design which is doubled the performance than previous generation of USB 3.2 Gen 2. It works up to 20Gbps ultra-fast data transfer while connecting to USB 3.2 compliant peripherals. Through the USB Type-C® connector, users can enjoy the flexibility of reversible connection to access and store massive amounts of data rapidly.

High-End Audio Capacitors
GIGABYTE motherboards use high-end audio capacitors. These high quality capacitors help deliver high resolution and high fidelity audio to provide the most realistic sound effects for gamers.

Audio Noise Guard
GIGABYTE motherboards feature an audio noise guard that essentially separates the board's sensitive analog audio components from potential noise pollution at the PCB level.

PERSONALIZATION
GIGABYTE motherboards bundle several useful and intuitive software to help users to control every aspect of motherboard and provide customizable lighting effect with outstanding aesthetics to fit your unique personality.

RGB Fusion Multi-Zone Light Show Design
Now offering more LED customizations than ever, users can truly adapt their PC to represent their lifestyle. With full RGB support and a redesigned RGB Fusion 2.0 application, the user has complete control over the LEDs which surround the motherboard.

Friendly User Interface
The EASY MODE shows important hardware information in one page including CPU clock, Memory,

Storage, Fan.
My Favorites
Add constantly used items into the favorite menu for quick access.

Storage Information
Show all kinds of storage information including SATA, PCIE and M.2 interface.

Changelog
List all changes before saving and exiting bios. Quickly review overall settings modification.

Intuitive Load Line Curve
Clearly show each loadline calibration setting in an intuitive curve graph.

ULTRA DURABLE
GIGABYTE Ultra Durable™ design provides product durability and high-quality manufacturing process. GIGABYTE motherboards use the best components and reinforce every slots to make each of them solid and durable.

PCIe EZ-Latch
Unlock the latch of the PCIe slot easily when remove the graphics card in the PCIe slot.

Q-Flash Plus
Update the BIOS easily without installing the CPU, memory and graphics card.
With GIGABYTE Q-Flash Plus, you don't need to install the CPU, memory and graphics card nor enter the BIOS menu to flash the BIOS. Just download and save a new BIOS file (rename to gigabyte.bin) on the USB flash drive, then press the dedicated Q-Flash Plus button and you're good to go!

Zusammenfassung

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Gigabyte Z790 UD AX (REV. 1.0), Intel, LGA 1700, Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9,..., LGA 1700, DDR5-SDRAM, 128 GB

Gigabyte Z790 UD AX (REV. 1.0). Processor manufacturer: Intel, Processor socket: LGA 1700, Compatible processor series: Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9,.... Supported memory types: DDR5-SDRAM, Maximum internal memory: 128 GB, Memory slots type: DIMM. Supported storage drive interfaces: M.2, PCI Express 4.0, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 5, 10. Parallel processing technology support: Crossfire, Maximum resolution: 4096 x 2304 pixels. USB connector type: USB Type-A, USB Type-C

Merkmale

Packaging content

Cables included	SATA

Weight & dimensions

Width	305 mm
Depth	244 mm

Expansion slots

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

Graphics

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

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

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	Y

BIOS

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

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

Network

Ethernet LAN	Y
Ethernet interface type	2.5 Gigabit Ethernet
Wi-Fi	Y
Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
WLAN controller model	AMD RZ616
Bluetooth	Y
Bluetooth version	5.2

Memory

Supported memory types	DDR5-SDRAM
Number of memory slots	4
Memory slots type	DIMM
Memory channels	Dual-channel
ECC	Y
Non-ECC	Y
Supported memory clock speeds	4000,4800,5200,5400,5600,5800

RAID levels	0, 1, 5, 10

	,6000,6200,6400,6600,6800,7000,7200,7400,7600 MHz
Supported memory clock speed (max)	7600 MHz
Maximum internal memory	128 GB
Unbuffered memory	Y

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	Y
WiFi-AP antenna jack	2
USB connector type	USB Type-A, USB Type-C

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