**GIGABYTE**

# GIGABYTE Z790 D AX Motherboard - Supports Intel Core 14th Gen CPUs, 12+1+1 Phases Digital VRM, up to 7600MHz DDR5 (OC), 3xPCIe 4.0 M.2, Wi-Fi 6E, 2.5GbE LAN, USB 3.2 Gen 2
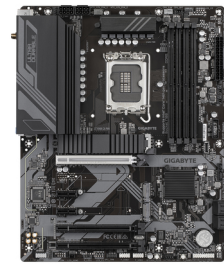
**Brand :** GIGABYTE

**Product name :** Z790 D AX Motherboard - Supports Intel Core 14th Gen CPUs, 12+1+1 Phases Digital VRM, up to 7600MHz DDR5 (OC), 3xPCIe 4.0 M.2, Wi-Fi 6E, 2.5GbE LAN, USB 3.2 Gen 2

**Product code:** Z790 D AX

Z790, 4 x DDR5, Wi-Fi 6E, 2.5GbE LAN, 4 x SATA 6Gb/s, USB 3.2

GIGABYTE Z790 D AX Motherboard - Supports Intel Core 14th Gen CPUs, 12+1+1 Phases Digital VRM, up to 7600MHz DDR5 (OC), 3xPCIe 4.0 M.2, Wi-Fi 6E, 2.5GbE LAN, USB 3.2 Gen 2:

Elevate your computing experience with GIGABYTE's renowned motherboard series: AORUS, AERO, and GIGABYTE. Featuring innovative designs and advanced features, these boards offer exceptional performance and reliability. Whether you're a gamer, content creator, or professional, our series cater to your needs, ensuring uncompromising quality and cutting-edge technology.

## 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 |
| Maximum number of SMP processors | 1 |
| Supported processor sockets | LGA 1700 |
| Maximum internal memory supported by processor | 192 GB |

### 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 | 4400,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600 MHz |
| Supported memory clock speed (max) | 7600 MHz |
| Maximum internal memory * | 192 GB |
| Supported memory module capacities | 1GB, 2GB, 4GB, 8GB, 12GB, 16GB, 32GB, 48GB |
| Unbuffered memory | ✓ |

## Storage controllers

| | |
|---|---|
| Supported storage drive types | HDD & SSD |
| Supported storage drive interfaces * | M.2, SATA III |
| Number of HDDs supported | 4 |
| Number of storage drives supported | 7 |
| RAID support | ✓ |
| RAID levels | 0, 1, 5, 10 |

## Graphics

| | |
|---|---|
| Parallel processing technology support * | Not supported |
| Maximum resolution | 4096 x 2304 pixels |
| HDCP | ✓ |
| DirectX version | 12.0 |

## Rear panel I/O ports

| | |
|---|---|
| DisplayPort version | 1.2 |
| Headphone outputs | 1 |
| Microphone in | ✓ |
| S/PDIF out port | ✓ |
| WiFi-AP antenna jack | 2 |
| USB connector type | USB Type-A, USB Type-C |

## Network

| | |
|---|---|
| Ethernet LAN | ✓ |
| Ethernet interface type | 2.5 Gigabit Ethernet |
| LAN controller | Realtek RTL8125 |
| Wi-Fi * | ✓ |
| Top Wi-Fi standard | Wi-Fi 6E (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), Wi-Fi 6E (802.11ax) |
| WLAN controller model | Intel Wi-Fi 6E AX211 |
| Bluetooth | ✓ |
| Bluetooth version | 5.3 |

## Features

| | |
|---|---|
| Motherboard chipset * | Intel Z790 Express |
| Audio chip | Realtek ALC897 |
| Audio output channels * | 7.1 channels |
| Product colour | Brown |
| PC health monitoring | Fan, Temperature, Voltage, Water cooling |
| Component for * | PC |
| Motherboard form factor * | ATX |
| Motherboard chipset family * | Intel |
| Power source type | ATX |
| Windows operating systems supported | Windows 10 x64, Windows 11 x64 |

## Graphics

| | |
|---|---|
| Discrete graphics support | ✔ |

## 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 * | 4 |
| Total number of SATA connectors | 4 |
| Front panel audio connector | ✔ |
| Front panel connector | ✔ |
| ATX Power connector (24-pin) | ✔ |
| Number of EATX power connectors | 2 |
| CPU fan connector | ✔ |
| EPS power connector (8-pin) | ✔ |
| TPM connector | ✔ |
| Thunderbolt headers | 2 |
| 12V power connector | ✔ |
| RGB LED pin header | ✔ |

## Rear panel I/O ports

| | |
|---|---|
| USB 2.0 ports quantity * | 2 |
| 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 |
| PS/2 ports quantity | 1 |
| HDMI ports quantity * | 1 |
| HDMI version | 2.1 |
| DisplayPorts quantity | 1 |

## Expansion slots

| | |
|---|---|
| PCI Express x1 (Gen 3.x) slots | 2 |
| PCI Express x16 (Gen 3.x) slots | 1 |
| PCI Express x16 (Gen 4.x) slots | 1 |
| PCI Express x16 (Gen 5.x) slots | 1 |
| Number of M.2 (M) slots | 3 |

## BIOS

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

## Logistics data

| | |
|---|---|
| Country of origin | China |
| 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 | 335 mm |
| Package depth | 270 mm |
| Package height | 80 mm |
| Package weight | 1.84 kg |

## Weight & dimensions

| | |
|---|---|
| Width | 305 mm |
| Depth | 244 mm |
| Height | 35 mm |

## Packaging content

| | |
|---|---|
| Cables included | SATA |
| Batteries included | ✔ |
| Antenna included | ✔ |
| Bundled software | Norton® Internet Security (OEM version) LAN bandwidth management software |

## Technical details

| | |
|---|---|
| Warranty period | 3 year(s) |

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