

## Gigabyte Z790 GAMING X motherboard Intel Z790 LGA 1700 ATX

**Brand :** Gigabyte

**Product code:** Z790 GAMING X

**Product name :** Z790 GAMING X

- Intel® Socket LGA 1700□Support 13th and 12th Gen Series Processors
- Unparalleled Performance□Twin 16\*+2+□ Phases Digital VRM Solution
- Dual Channel DDR5□4\*DIMMs with XMP 3.0 Memory Module Support
- Next Generation Storage□4\*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 Plus□M.2 Connectors with Quick Release & Screwless Design
- Fast Networks□2.5GbE LAN
- Extended Connectivity□DP, HDMI, Front USB-C® 10Gb/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
- 8+8 phases parallel power design

ATX, LGA 1700 socket, Intel Z790 Express chipset, 4x DDR5 DIMM, AMI UEFI BIOS, 6 x SATA 6Gb/s, 1 x RJ-45, 2 x Thunderbolt



| Processor                                |   | Rear panel I/O ports                              |  |
|--|---|---|--|
| Processor manufacturer *                 | Intel   | USB 2.0 ports quantity *                          | 4  |
| Processor socket *                       | LGA 1700  | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 3  |
| Compatible processor series *            | Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 2  |
| Supported processor sockets              | LGA 1700  | USB 3.2 Gen 2x2 Type-C ports quantity             | 1  |
| Memory                                   |   | Ethernet LAN (RJ-45) ports *                      | 1  |
| Supported memory types *                 | DDR5-SDRAM  | HDMI ports quantity *                             | 1  |
| Number of memory slots *                 | 4   | HDMI version                                      | 2.0                                      |
| Memory slots type                        | DIMM  | DisplayPorts quantity                             | 1  |
| Memory channels                          | Dual-channel  | DisplayPort version                               | 1.2                                      |
| ECC                                      | ✓   | Headphone outputs                                 | 2  |
| Non-ECC                                  | ✓   | Microphone in                                     | ✓  |
| Supported memory clock speeds            | 4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600 MHz                            | S/PDIF out port                                   | ✓  |
| Supported memory clock speed (max)       | 7600 MHz  | WiFi-AP antenna jack                              | 2  |
| Maximum internal memory *                | 128 GB  | USB connector type                                | USB Type-A, USB Type-C                   |
| Unbuffered memory                        | ✓   | Network   |  |
| Storage controllers                      |   | Ethernet LAN                                      | ✓  |
| Supported storage drive types            | HDD & SSD   | Ethernet interface type                           | 2.5 Gigabit Ethernet                     |
| Supported storage drive interfaces *     | M.2, PCI Express 4.0, SATA III  | Wi-Fi *   | ✗  |
| Number of storage drives supported       | 10  | Features  |  |
| RAID support                             | ✓   | Motherboard chipset *                             | Intel Z790                               |
| RAID levels                              | 0, 1, 5, 10   | Audio output channels *                           | 7.1 channels                             |
| Graphics                                 |   | PC health monitoring                              | Fan, Temperature, Voltage, Water cooling |
| Parallel processing technology support * | Crossfire   | Component for *                                   | PC                                       |
| Maximum resolution                       | 4096 x 2304 pixels  | Motherboard form factor *                         | ATX                                      |
| HDCP                                     | ✓   | Motherboard chipset family *                      | Intel                                    |
| Internal I/O                             |   | Windows operating systems supported               | Windows 10 x64, Windows 11 x64           |
| USB 2.0 connectors *                     | 2   | Expansion slots                                   |  |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors *   | 1   | PCI Express x16 slots                             | 3  |
| USB 3.2 Gen 2 (3.1 Gen 2) connectors *   | 1   |   |  |
| Number of SATA III connectors *          | 6   |   |  |

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



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