

## Gigabyte Z790 AORUS MASTER Motherboard - Supports Intel Core 13th CPUs, 20+1+2 Phases Digital VRM, up to 8000MHz DDR4 (OC), 1xPCIe 5.0+4xPCIe 4.0 M.2, Wi-Fi 6E, 10GbE LAN, USB 3.2 Gen 2x2

**Brand :** Gigabyte

**Product code:** Z790 AORUS MASTER

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E-ATX, LGA 1700 socket, Intel Z790 Express chipset, 4x DDR5, Wi-Fi 6E, AMI UEFI BIOS

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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   |                                   | Rear panel I/O ports   |                        |
|---|-----------------------------------|--|------------------------|
| Processor manufacturer *  | Intel                             | Ethernet LAN (RJ-45) ports *   | 1                      |
| Processor socket *  | LGA 1700                          | DisplayPorts quantity  | 1                      |
| Compatible processor series *   | Intel® Celeron®, Intel® Core™ i3, | DisplayPort version  | 1.2                    |
|   | Intel® Core™ i5, Intel® Core™ i7, | Headphone outputs  | 2                      |
| Supported processor sockets   | Intel® Core™ i9, Intel® Pentium®  | Microphone in  | ✓                      |
|   | Gold                              | S/PDIF out port  | ✓                      |
| Maximum internal memory supported by processor  | 192 GB                            | WiFi-AP antenna jack   | 2                      |
| <b>Memory</b><br>Supported memory types * DDR5-SDRAM<br>Number of memory slots * 4<br>Memory slots type DIMM<br>Memory channels Dual-channel<br>ECC ✓<br>Non-ECC ✓<br>Supported memory clock speeds 8000,7950,7900,7800,4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600 MHz<br>Supported memory clock speed (max) 8000 MHz<br>Maximum internal memory * 192 GB<br>Supported memory module capacities 1GB, 2GB, 4GB, 8GB, 12GB, 16GB, 32GB, 48GB<br>Unbuffered memory ✓ |                                   | USB connector type   | USB Type-A, USB Type-C |
|   |                                   | <b>Network</b><br>Ethernet LAN ✓<br>Ethernet interface type 10 Gigabit Ethernet<br>LAN controller Marvell AQtion AQC113C<br>Wi-Fi * ✓<br>Top Wi-Fi standard Wi-Fi 6E (802.11ax)<br>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)<br>WLAN controller model Killer Wi-Fi 6E AX1690<br>Bluetooth ✓<br>Bluetooth version 5.3     |                        |
| <b>Storage controllers</b><br>Supported storage drive types HDD & SSD<br>Supported storage drive interfaces * M.2, PCI Express 4.0, PCI Express 5.0, SATA III<br>Number of HDDs supported 4<br>Number of storage drives supported 9<br>RAID support ✓<br>RAID levels 0, 1, 5, 10  |                                   | <b>Features</b><br>Motherboard chipset * Intel Z790<br>Audio chip Realtek ALC1220-VB<br>Audio output channels * 7.1 channels<br>Product colour Black<br>PC health monitoring Fan, Noise, Temperature, Voltage, Water cooling<br>Component for * PC<br>Motherboard form factor * Extended ATX<br>Motherboard chipset family * Intel<br>Windows operating systems supported Windows 10 x64, Windows 11 x64 |                        |
| <b>Graphics</b><br>Parallel processing technology support * Crossfire<br>Maximum resolution 4096 x 2304 pixels<br>HDCP ✓<br>DirectX version 12.0  |                                   |  |                        |
| <b>Internal I/O</b><br>USB 2.0 connectors * 2   |                                   |  |                        |

| Internal I/O                                      |   | Expansion slots                            |                                    |
|---|---|--|------------------------------------|
| USB 3.2 Gen 1 (3.1 Gen 1) connectors *            | 2 | PCI Express x16 slots                      | 3                                  |
| USB 3.2 Gen 2 (3.1 Gen 2) connectors *            | 1 | Number of M.2 (M) slots                    | 5                                  |
| Number of SATA III connectors *                   | 4 | <b>BIOS</b>                                |                                    |
| Total number of SATA connectors                   | 4 | BIOS type *                                | UEFI AMI                           |
| Front panel audio connector                       | ✓ | BIOS memory size                           | 256 Mbit                           |
| Front panel connector                             | ✓ | ACPI version                               | 5.0                                |
| ATX Power connector (24-pin)                      | ✓ | Clear CMOS jumper                          | ✓                                  |
| CPU fan connector                                 | ✓ | Clear CMOS button                          | ✓                                  |
| EPS power connector (8-pin)                       | ✓ | Desktop Management Interface (DMI) version | 2.7                                |
| TPM connector                                     | ✓ | System Management BIOS (SMBIOS) version    | 2.7                                |
| Thunderbolt headers                               | 2 | <b>Logistics data</b>                      |                                    |
| 12V power connector                               | ✓ | Country of origin                          | Taiwan                             |
| RGB LED pin header                                | ✓ | Products per shipping (inner) case         | 1 pc(s)                            |
| <b>Rear panel I/O ports</b>                       |   | <b>Battery</b>                             |                                    |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 4 | Battery weight                             | 3 g                                |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity * | 1 | Lithium weight per battery                 | 0.07 g                             |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 7 | Number of battery cells                    | 1                                  |
| USB 3.2 Gen 2x2 Type-C ports quantity             | 2 | Battery technology                         | Lithium-Manganese Dioxide (LiMnO2) |
|   |   | Battery type                               | CR2032                             |
|   |   | <b>Packaging data</b>                      |                                    |
|   |   | Package width                              | 345 mm                             |
|   |   | Package depth                              | 294 mm                             |
|   |   | Package height                             | 80 mm                              |
|   |   | Package weight                             | 3.46 kg                            |
|   |   | <b>Weight &amp; dimensions</b>             |                                    |
|   |   | Width                                      | 305 mm                             |
|   |   | Depth                                      | 260 mm                             |
|   |   | Height                                     | 35 mm                              |
|   |   | <b>Packaging content</b>                   |                                    |
|   |   | Cables included                            | SATA                               |
|   |   | Batteries included                         | ✓                                  |
|   |   | <b>Technical details</b>                   |                                    |
|   |   | Warranty period                            | 3 year(s)                          |



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