



GIGABYTE Z890 AORUS MASTER Motherboard - Supports Intel Core Ultra (Series 2) CPUs, 18+1+2 phases VRM, up to 9500MHz DDR5 (OC), 2xPCIe 5.0 + 3xPCIe 4.0, Wi-Fi 7, 10GbE LAN, Thunderbolt 4



Brand : GIGABYTE

Product code: Z890 AORUS MASTER

Product name : Z890 AORUS MASTER Motherboard - Supports Intel Core Ultra (Series 2) CPUs, 18+1+2 phases VRM, up to 9500MHz DDR5 (OC), 2xPCIe 5.0 + 3xPCIe 4.0, Wi-Fi 7, 10GbE LAN, Thunderbolt 4

- Digital 18+1+2+1 Phases 110A SPS VRM with Tantalum Polymer Capacitor
 - Reinforced PCIe UD Slot X PCIe 5.0 with PCIe EZ-Latch Plus Design
 - PCIe M.2 design (Up to 25110) with M.2 EZ-Latch Plus & Thermal Guard
 - Fully Covered MOSFET Heatsinks with heatpipe/M.2 EZ-Latch Click Design
 - Intel 2x2 Wi-Fi 7 BE200 with WIFI EZ-Plug Design
 - 10GbE LAN, THUNDERBOLT 4 Type-C, USB 3.2 Gen2x2 Type-C
 - AORUS Exclusive DDR Cooling kit: DDR Wind Blade
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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

Processor

| | |
|------------------------------------------------|-----------------------------|
| Processor manufacturer * | Intel |
| Processor socket * | LGA 1851 (Socket V1) |
| Compatible processor series * | Intel Core Ultra (Series 2) |
| Supported processor sockets | LGA 1851 |
| Maximum internal memory supported by processor | 256 GB |

Memory

| | |
|------------------------------------|----------------------------------------------------------------------------------------------------|
| Supported memory types * | DDR5-SDRAM |
| Number of memory slots * | 4 |
| Memory slots type | DIMM |
| Memory channels | Dual-channel |
| Non-ECC | ✓ |
| Supported memory clock speeds | 5600,5800,6000,6200,6400,6600,7000,7200,7400,7600,7800,7900,7950,8000,8200,8266,8400,8600,9500 MHz |
| Supported memory clock speed (max) | 9500 MHz |
| Maximum internal memory * | 256 GB |
| Supported memory module capacities | 1GB, 2GB, 4GB, 8GB, 12GB, 16GB, 24GB, 32GB, 40GB, 48GB, 64GB |

Storage controllers

| | |
|--------------------------------------|---------------|
| Supported storage drive types | HDD & SSD |
| Supported storage drive interfaces * | M.2, SATA III |
| Number of HDDs supported | 9 |
| Number of storage drives supported | 4 |
| RAID support | ✓ |
| RAID levels | 0, 1, 5, 10 |

Graphics

| | |
|-----------------|------|
| DirectX version | 12.0 |
|-----------------|------|

Internal I/O

| | |
|----------------------------------------|---|
| USB 2.0 connectors * | 2 |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * | 2 |
| USB 3.2 Gen 2x2 connectors | 1 |
| Number of SATA III connectors * | 4 |
| Total number of SATA connectors | 4 |

Network

| | |
|-------------------------|---------------------|
| Ethernet LAN | ✓ |
| Ethernet interface type | 10 Gigabit Ethernet |
| Wi-Fi * | ✓ |
| Top Wi-Fi standard | Wi-Fi 7 (802.11be) |
| Wi-Fi standards | Wi-Fi 7 (802.11be) |
| WLAN controller model | Intel Wi-Fi 7 BE200 |
| Bluetooth | ✓ |
| Bluetooth version | 5.4 |

Features

| | |
|-------------------------------------|---------------------------|
| Motherboard chipset * | Intel Z890 |
| Audio output channels * | 5.1 channels |
| Product colour | Black |
| PC health monitoring | Fan, Temperature, Voltage |
| Component for * | PC |
| Motherboard form factor * | ATX |
| Motherboard chipset family * | Intel |
| Windows operating systems supported | Windows 11 x64 |

Expansion slots

| | |
|-------------------------|---|
| Number of M.2 (M) slots | 5 |
|-------------------------|---|

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 |

| Internal I/O | | BIOS | |
|---------------------------------------------------|---|-----------------------------------------|---------------------------------------------------------------------------|
| ATX Power connector (24-pin) | ✓ | System Management BIOS (SMBIOS) version | 2.7 |
| EPS power connector (8-pin) | ✓ | Logistics data | |
| TPM connector | ✓ | Country of origin | China |
| 12V power connector | ✓ | Products per shipping (inner) case | 1 pc(s) |
| RGB LED pin header | ✓ | Battery | |
| Rear panel I/O ports | | Battery weight | 3 g |
| USB 2.0 ports quantity * | 2 | Lithium weight per battery | 0.07 g |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 4 | Number of battery cells | 1 |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 6 | Battery technology | Lithium-Manganese Dioxide (LiMnO2) |
| Ethernet LAN (RJ-45) ports * | 1 | Battery type | CR2032 |
| HDMI ports quantity * | 1 | Packaging data | |
| DisplayPorts quantity | 2 | Package width | 335 mm |
| Microphone in | ✓ | Package depth | 270 mm |
| S/PDIF out port | ✓ | Package height | 80 mm |
| Thunderbolt ports quantity | 2 | Package weight | 2.51 kg |
| | | Weight & dimensions | |
| | | Width | 305 mm |
| | | Depth | 244 mm |
| | | Height | 35 mm |
| | | Packaging content | |
| | | Batteries included | ✓ |
| | | Bundled software | Norton® Internet Security (OEM version) LAN bandwidth management software |
| | | Other features | |
| | | Weight | 2.19 kg |
| | | Technical details | |
| | | Warranty period | 3 year(s) |



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