

GIGABYTE Z890 AORUS PRO ICE Motherboard

Brand : GIGABYTE

Product code: Z890 AORUS PRO ICE

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- Digital 16+1+2+1 Phases 90A 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
  - 5GbE LAN, THUNDERBOLT 4 Type-C, USB 3.2 Gen2x2 Type-C
  - AORUS Exclusive DDR Cooling kit: DDR Wind Blade
- Supports Intel Core Ultra (Series 2) CPUs, 16+1+2 phases VRM, up to 9500MHz DDR5 (OC), 1xPCIe 5.0 + 4xPCIe 4.0, Wi-Fi 7, 5GbE LAN, Thunderbolt 4

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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                                      |                                                                                                         | Network                             |                           |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------|
| Processor manufacturer *                       | Intel                                                                                                   | Ethernet interface type             | 5 Gigabit Ethernet        |
| Processor socket *                             | LGA 1851 (Socket V1)                                                                                    | Wi-Fi *                             | ✓                         |
| Compatible processor series *                  | Intel Core Ultra (Series 2)                                                                             | Top Wi-Fi standard                  | Wi-Fi 7 (802.11be)        |
| Supported processor sockets                    | LGA 1851                                                                                                | Wi-Fi standards                     | Wi-Fi 7 (802.11be)        |
| Maximum internal memory supported by processor | 256 GB                                                                                                  | WLAN controller model               | Intel Wi-Fi 7 BE200       |
| Memory                                         |                                                                                                         | Bluetooth                           | ✓                         |
| Supported memory types *                       | DDR5-SDRAM                                                                                              | Bluetooth version                   | 5.4                       |
| Number of memory slots *                       | 4                                                                                                       | Features                            |                           |
| Memory slots type                              | DIMM                                                                                                    | Motherboard chipset *               | Intel Z890                |
| Memory channels                                | Dual-channel                                                                                            | Audio chip                          | Realtek ALC1220           |
| ECC compatibility                              | Non-ECC                                                                                                 | Audio output channels *             | 7.1 channels              |
| Supported memory clock speeds                  | 5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600,7800,7900,7950,8000,8200,8266,8400,8600,9500 MHz | Product colour                      | White                     |
| Supported memory clock speed (max)             | 9500 MHz                                                                                                | PC health monitoring                | Fan, Temperature, Voltage |
| Maximum internal memory *                      | 256 GB                                                                                                  | Component for *                     | PC                        |
| Supported memory module capacities             | 1GB, 2GB, 4GB, 8GB, 12GB, 16GB, 24GB, 32GB, 40GB, 48GB, 64GB                                            | Motherboard form factor *           | ATX                       |
| Storage controllers                            |                                                                                                         | Motherboard chipset family *        | Intel                     |
| Supported storage drive types                  | HDD & SSD                                                                                               | Windows operating systems supported | Windows 11 x64            |
| Supported storage drive interfaces *           | M.2, SATA III                                                                                           | Expansion slots                     |                           |
| Number of HDDs supported                       | 9                                                                                                       | PCI Express x16 (Gen 4.x) slots     | 2                         |
| Number of storage drives supported             | 4                                                                                                       | PCI Express x16 (Gen 5.x) slots     | 1                         |
| RAID support                                   | ✓                                                                                                       | Number of M.2 (M) slots             | 5                         |
| RAID levels                                    | 0, 1, 5, 10                                                                                             | BIOS                                |                           |
| Graphics                                       |                                                                                                         | BIOS type *                         | UEFI AMI                  |
| On-board graphics card                         | ✗                                                                                                       | BIOS memory size                    | 256 Mbit                  |
| DirectX version                                | 12.0                                                                                                    | ACPI version                        | 5.0                       |
| Internal I/O                                   |                                                                                                         | Clear CMOS jumper                   | ✓                         |
| USB 2.0 connectors *                           | 2                                                                                                       | Clear CMOS button                   | ✓                         |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors *         | 1                                                                                                       |                                     |                           |
| USB 3.2 Gen 2x2 connectors                     | 1                                                                                                       |                                     |                           |
| Number of SATA III connectors *                | 4                                                                                                       |                                     |                           |
| Total number of SATA connectors                | 4                                                                                                       |                                     |                           |

| Internal I/O                                      |   | BIOS                                       |                                                                           |
|---------------------------------------------------|---|--------------------------------------------|---------------------------------------------------------------------------|
| ATX Power connector (24-pin)                      | ✓ | Desktop Management Interface (DMI) version | 2.7                                                                       |
| EPS power connector (8-pin)                       | ✓ | System Management BIOS (SMBIOS) version    | 2.7                                                                       |
| Number of EPS power connectors (8-pin)            | 2 | 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 *                          | 4 | 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 * | 2 | Battery capacity                           | 220 mAh                                                                   |
| Ethernet LAN (RJ-45) ports *                      | 1 | Battery technology                         | Lithium-Manganese Dioxide (LiMnO2)                                        |
| HDMI ports quantity *                             | 1 | Battery type                               | CR2032                                                                    |
| DisplayPorts quantity                             | 2 | Packaging data                             |                                                                           |
| Microphone in                                     | ✓ | Package width                              | 335 mm                                                                    |
| S/PDIF out port                                   | ✓ | Package depth                              | 270 mm                                                                    |
| Thunderbolt ports quantity                        | 2 | Package height                             | 80 mm                                                                     |
| Network                                           |   | Package weight                             | 2.55 kg                                                                   |
| Ethernet LAN                                      | ✓ | 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                                     | 2.27 kg                                                                   |
|                                                   |   | Technical details                          |                                                                           |
|                                                   |   | Warranty period                            | 3 year(s)                                                                 |



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### Catalog Object Cloud



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