

GIGABYTE X870E AORUS MASTER Motherboard - Supports AMD Ryzen 9000 CPUs, 16+2+2 Phases Digital VRM, up to 8600MHz DDR5 (OC), 3xPCIe 5.0 + 1xPCIe 4.0, Wi-Fi 7, 5GbE LAN, USB 4

Brand : GIGABYTE

Product code: X870E AORUS MASTER

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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 *                       | AMD                                                                                      | Ethernet interface type                | 5 Gigabit Ethernet        |
| Processor socket *                             | Socket AM5                                                                               | LAN controller                         | Realtek RTL8126           |
| Compatible processor series *                  | AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series                      | Wi-Fi *                                | ✓                         |
|                                                |                                                                                          | Top Wi-Fi standard                     | Wi-Fi 7 (802.11be)        |
| Supported processor sockets                    | Socket AM5                                                                               | Wi-Fi standards                        | Wi-Fi 7 (802.11be)        |
| Maximum internal memory supported by processor | 256 GB                                                                                   | WLAN controller model                  | Qualcomm QCNCM865         |
| Memory                                         |                                                                                          | Bluetooth                              | ✓                         |
| Supported memory types *                       | DDR5-SDRAM                                                                               | Bluetooth version                      | 5.3                       |
| Number of memory slots *                       | 4                                                                                        | Features                               |                           |
| Memory slots type                              | DIMM                                                                                     | Motherboard chipset *                  | AMD X870                  |
| Memory channels                                | Dual-channel                                                                             | Audio chip                             | Realtek ALC1220           |
| ECC compatibility                              | ECC & Non-ECC                                                                            | Audio output channels *                | 7.1 channels              |
| Supported memory clock speeds                  | 4400,4800,5200,5600,6000,6200,6400,6600,6666,6800,7000,7200,7600,7800,8200,8400,8600 MHz | Product colour                         | Black                     |
| Supported memory clock speed (max)             | 8600 MHz                                                                                 | PC health monitoring                   | Fan, Temperature, Voltage |
| Maximum internal memory *                      | 256 GB                                                                                   | Component for *                        | PC                        |
| Supported memory module capacities             | 1GB, 2GB, 4GB, 8GB, 12GB, 24GB, 32GB                                                     | Motherboard form factor *              | ATX                       |
| Unbuffered memory                              | ✓                                                                                        | Motherboard chipset family *           | AMD                       |
| Maximum internal memory per slot               | 64 GB                                                                                    | Windows operating systems supported    | Windows 11 x64            |
| Storage controllers                            |                                                                                          | Expansion slots                        |                           |
| Supported storage drive types                  | HDD & SSD                                                                                | PCI Express x4 slots                   | 2                         |
| Supported storage drive interfaces *           | M.2, SATA III                                                                            | PCI Express x16 (Gen 3.x) slots        | 1                         |
| Number of HDDs supported                       | 4                                                                                        | PCI Express x16 (Gen 4.x) slots        | 1                         |
| Number of storage drives supported             | 8                                                                                        | PCI Express x16 (Gen 5.x) slots        | 1                         |
| RAID support                                   | ✓                                                                                        | Number of M.2 (M) slots                | 4                         |
| RAID levels                                    | 0, 1, 10                                                                                 | 1st M.2 largest key size               | 25110                     |
| Graphics                                       |                                                                                          | 1st M.2 highest PCI Express generation | 5.0                       |
| Parallel processing technology support *       | Not supported                                                                            | 2nd M.2 largest key size               | 22110                     |
| On-board graphics card                         | ✗                                                                                        |                                        |                           |
| DirectX version                                | 12.0                                                                                     |                                        |                           |

| Internal I/O                                      |     | Expansion slots                            |                                    |
|---------------------------------------------------|-----|--------------------------------------------|------------------------------------|
| USB 2.0 connectors *                              | 2   | 2nd M.2 highest PCI Express generation     | 5.0                                |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors *            | 2   | 3rd M.2 largest key size                   | 22110                              |
| USB 3.2 Gen 2x2 connectors                        | 1   | 3rd M.2 highest PCI Express generation     | 5.0                                |
| Number of SATA III connectors *                   | 4   | 4th M.2 largest key size                   | 22110                              |
| Front panel audio connector                       | ✓   | 4th M.2 highest PCI Express generation     | 4.0                                |
| Front panel connector                             | ✓   | BIOS                                       |                                    |
| ATX Power connector (24-pin)                      | ✓   | BIOS type *                                | UEFI AMI                           |
| CPU fan connector                                 | ✓   | BIOS memory size                           | 256 Mbit                           |
| Number of CPU fan connectors                      | 2   | ACPI version                               | 5.0                                |
| Number of chassis fan connectors                  | 6   | Clear CMOS jumper                          | ✓                                  |
| EPS power connector (8-pin)                       | ✓   | Clear CMOS button                          | ✓                                  |
| Number of EPS power connectors (8-pin)            | 2   | Desktop Management Interface (DMI) version | 2.7                                |
| TPM connector                                     | ✓   | System Management BIOS (SMBIOS) version    | 2.7                                |
| Number of water pump connectors                   | 2   | Logistics data                             |                                    |
| RGB LED pin header                                | ✓   | Country of origin                          | China                              |
| Number of RGB LED pin headers                     | 5   | Products per shipping (inner) case         | 1 pc(s)                            |
| Rear panel I/O ports                              |     | Battery                                    |                                    |
| USB 2.0 ports quantity *                          | 2   | Battery weight                             | 3 g                                |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 4   | Lithium weight per battery                 | 0.07 g                             |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 4   | Number of battery cells                    | 1                                  |
| USB4 Gen 2x2 ports quantity                       | 2   | Battery technology                         | Lithium-Manganese Dioxide (LiMnO2) |
| Ethernet LAN (RJ-45) ports *                      | 1   | Battery type                               | CR2032                             |
| HDMI ports quantity *                             | 1   | Packaging data                             |                                    |
| HDMI version                                      | 2.1 | Package width                              | 345 mm                             |
| DisplayPort version                               | 1.4 | Package depth                              | 294 mm                             |
| Headphone outputs                                 | 1   | Package height                             | 80 mm                              |
| Line-in                                           | ✓   | Package weight                             | 2.97 kg                            |
| S/PDIF out port                                   | ✓   | Weight & dimensions                        |                                    |
| WiFi-AP antenna jack                              | 2   | Width                                      | 305 mm                             |
| Network                                           |     | Depth                                      | 244 mm                             |
| Ethernet LAN                                      | ✓   | Height                                     | 35 mm                              |
|                                                   |     | Packaging content                          |                                    |
|                                                   |     | Batteries included                         | ✓                                  |
|                                                   |     | Antenna included                           | ✓                                  |
|                                                   |     | Screws included                            | ✓                                  |
|                                                   |     | Other features                             |                                    |
|                                                   |     | Weight                                     | 2.54 kg                            |
|                                                   |     | Technical details                          |                                    |
|                                                   |     | Warranty period                            | 3 year(s)                          |



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### Catalog Object Cloud



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