

## GIGABYTE B840M AORUS ELITE WIFI6E Motherboard - AMD Ryzen 9000 CPUs, 10+2+2 Phases VRM, up to 8200MHz DDR5(O.C), 2xPCIe 4.0 M.2, Wi-Fi 6E, 2.5GbE LAN, USB 3.2 Gen 2



**Brand :** GIGABYTE

**Product code:** B840M A ELT WF6E

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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 *                 | AMD  | Microphone in                       | ✓   |
| Processor socket *                       | Socket AM5   | WiFi-AP antenna jack                | 2   |
| Compatible processor series *            | AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series                                | Network                             |   |
| Supported processor sockets              | Socket AM5   | Ethernet LAN                        | ✓   |
| Memory                                   |  | Ethernet interface type             | 2.5 Gigabit Ethernet  |
| Supported memory types *                 | DDR5-SDRAM   | LAN controller                      | Realtek RTL8125   |
| Number of memory slots *                 | 4  | Wi-Fi *                             | ✓   |
| Memory slots type                        | DIMM   | Top Wi-Fi standard                  | Wi-Fi 6E (802.11ax)   |
| Memory channels                          | Dual-channel   | 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) |
| ECC compatibility                        | Non-ECC  | WLAN controller model               | Realtek RTL8852CE   |
| Supported memory clock speeds            | 8200,8000,7950,7900,7800,7600,7400,7200,7000,6800,6600,6400,6200,6000,5800,5600,5200,4800,4400 MHz | Bluetooth                           | ✓   |
| Supported memory clock speed (max)       | 8200 MHz   | Bluetooth version                   | 5.3   |
| Maximum internal memory *                | 256 GB   | Features                            |   |
| Unbuffered memory                        | ✓  | Motherboard chipset *               | AMD B840  |
| Maximum internal memory per slot         | 64 GB  | Audio chip                          | Realtek ALC897  |
| Storage controllers                      |  | Audio output channels *             | 7.1 channels  |
| Supported storage drive types            | HDD & SSD  | Product colour                      | Dark brown  |
| Supported storage drive interfaces *     | M.2, PCI Express 4.0, SATA III   | PC health monitoring                | Fan, Temperature, Voltage, Water cooling  |
| Number of HDDs supported                 | 4  | Component for *                     | PC  |
| Number of storage drives supported       | 6  | Motherboard form factor *           | micro ATX   |
| RAID support                             | ✓  | Motherboard chipset family *        | AMD   |
| RAID levels                              | 0, 1, 10   | Cooling type                        | Passive   |
| Graphics                                 |  | Power source type                   | ATX   |
| Parallel processing technology support * | Not supported  | Windows operating systems supported | Windows 10 x64, Windows 11 x64  |
| Maximum resolution                       | 4096 x 2160 pixels   | Expansion slots                     |   |
| HDCP                                     | ✓  | PCI Express x16 (Gen 3.x) slots     | 1   |
| DirectX version                          | 12.0   | PCI Express x16 (Gen 4.x) slots     | 1   |
| Internal I/O                             |  | Number of M.2 (M) slots             | 2   |
| USB 2.0 connectors *                     | 2  |                                     |   |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors *   | 2  |                                     |   |
| Number of SATA III connectors *          | 4  |                                     |   |
| Front panel audio connector              | ✓  |                                     |   |

| Internal I/O                                      |     | Expansion slots                            |   |
|---|-----|--|---|
| Front panel connector                             | ✓   | 1st M.2 largest key size                   | 2580  |
| ATX Power connector (24-pin)                      | ✓   | 1st M.2 highest PCI Express generation     | 4.0   |
| CPU fan connector                                 | ✓   | 2nd M.2 largest key size                   | 22110   |
| Number of CPU fan connectors                      | 2   | 2nd M.2 highest PCI Express generation     | 4.0   |
| Number of chassis fan connectors                  | 4   | <b>BIOS</b>                                |   |
| EPS power connector (8-pin)                       | ✓   | BIOS type *                                | UEFI AMI  |
| Number of EPS power connectors (8-pin)            | 1   | BIOS memory size                           | 256 Mbit  |
| TPM connector                                     | ✓   | ACPI version                               | 5.0   |
| 12V power connector                               | ✓   | Clear CMOS jumper                          | ✓   |
| Number of water pump connectors                   | 2   | Desktop Management Interface (DMI) version | 2.7   |
| RGB LED pin header                                | ✓   | System Management BIOS (SMBIOS) version    | 2.7   |
| Number of RGB LED pin headers                     | 4   | <b>Logistics data</b>                      |   |
| <b>Rear panel I/O ports</b>                       |     | Products per shipping (inner) case         | 1 pc(s)   |
| USB 2.0 ports quantity *                          | 4   | <b>Battery</b>                             |   |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2   | 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 * | 1   | Number of battery cells                    | 1   |
| Ethernet LAN (RJ-45) ports *                      | 1   | Battery technology                         | Lithium-Manganese Dioxide (LiMnO2)  |
| PS/2 ports quantity                               | 1   | Battery type                               | CR2032  |
| HDMI ports quantity *                             | 1   | <b>Packaging data</b>                      |   |
| HDMI version                                      | 2.1 | Package width                              | 270 mm  |
| DisplayPorts quantity                             | 1   | Package depth                              | 268 mm  |
| DisplayPort version                               | 1.4 | Package height                             | 68 mm   |
| Headphone outputs                                 | 1   | Package weight                             | 1.59 kg   |
| Line-in   | ✓   | <b>Weight &amp; dimensions</b>             |   |
|   |     | Width                                      | 244 mm  |
|   |     | Depth                                      | 244 mm  |
|   |     | Height                                     | 35 mm   |
|   |     | <b>Packaging content</b>                   |   |
|   |     | Batteries included                         | ✓   |
|   |     | Antenna included                           | ✓   |
|   |     | Screws included                            | ✓   |
|   |     | Bundled software                           | Norton® Internet Security (OEM version) LAN bandwidth management software |
|   |     | <b>Other features</b>                      |   |
|   |     | Weight                                     | 1.5 kg  |
|   |     | <b>Technical details</b>                   |   |
|   |     | Warranty period                            | 3 year(s)   |



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### Catalog Object Cloud



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