



# ASUS TUF GAMING B650M-E WIFI AMD B650 Socket AM5 micro ATX

**Brand :** ASUS

**Product code:** 90MB1FV0-M0EAY0

**Product name :** TUF GAMING B650M-E WIFI



AMD B650, Socket AM5, 4 x DIMM slots, Max. 128GB, DDR5, Realtek 2.5Gb Ethernet, 802.11 a/b/g/n/ac/ax, Bluetooth 5.2, micro-ATX, 256 Mb Flash ROM, UEFI AMI BIOS  
 ASUS TUF GAMING B650M-E WIFI. Processor manufacturer: AMD, Processor socket: Socket AM5, Compatible processor series: AMD Ryzen 5 7th Gen, AMD Ryzen 7 7th Gen, AMD Ryzen 9 7th Gen. Supported memory types: DDR5-SDRAM, Maximum internal memory: 128 GB, Memory slots type: DIMM. Supported storage drive interfaces: M.2, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 10. Ethernet interface type: 2.5 Gigabit Ethernet, Gigabit Ethernet, Top Wi-Fi standard: Wi-Fi 6 (802.11ax), Wi-Fi standards: 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax). Component for: PC, Motherboard form factor: micro ATX, Motherboard chipset family: AMD

| Processor                              |   | Rear panel I/O ports                              |  |
|--|---|---|--|
| Processor manufacturer *               | AMD   | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * | 1  |
| Processor socket *                     | Socket AM5  | Ethernet LAN (RJ-45) ports *                      | 1  |
| Compatible processor series *          | AMD Ryzen 5 7th Gen, AMD Ryzen 7 7th Gen, AMD Ryzen 9 7th Gen | PS/2 ports quantity                               | 1  |
| <b>Memory</b>                          |   | HDMI ports quantity *                             | 1  |
| Supported memory types *               | DDR5-SDRAM  | DisplayPorts quantity                             | 2  |
| Number of memory slots *               | 4   | Microphone in                                     | ✓  |
| Memory slots type                      | DIMM  | <b>Network</b>                                    |  |
| Memory channels                        | Dual-channel  | Ethernet LAN                                      | ✓  |
| ECC compatibility                      | ECC & Non-ECC   | Ethernet interface type                           | 2.5 Gigabit Ethernet, Gigabit Ethernet   |
| Supported memory clock speeds          | 4800,5000,5200,5400,5600,5800,6000,6200,6400 MHz              | Wi-Fi *   | ✓  |
| Maximum internal memory *              | 128 GB  | Top Wi-Fi standard                                | Wi-Fi 6 (802.11ax)   |
| Unbuffered memory                      | ✓   | Wi-Fi standards                                   | 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax) |
| <b>Storage controllers</b>             |   | Bluetooth   | ✓  |
| Supported storage drive types          | HDD & SSD   | Bluetooth version                                 | 5.2  |
| Supported storage drive interfaces *   | M.2, SATA III   | <b>Features</b>                                   |  |
| Number of HDDs supported               | 4   | Motherboard chipset *                             | AMD B650   |
| Number of storage drives supported     | 6   | Audio output channels *                           | 7.1 channels   |
| RAID support                           | ✓   | Component for *                                   | PC   |
| RAID levels                            | 0, 1, 10  | Motherboard form factor *                         | micro ATX  |
| <b>Internal I/O</b>                    |   | Motherboard chipset family *                      | AMD  |
| USB 2.0 connectors *                   | 2   | Windows operating systems supported               | Windows 10 x64, Windows 11   |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * | 2   | <b>Expansion slots</b>                            |  |
| Number of SATA III connectors *        | 4   | PCI Express x1 (Gen 4.x) slots                    | 2  |
| Front panel audio connector            | ✓   | Number of M.2 (M) slots                           | 2  |
| ATX Power connector (24-pin)           | ✓   | <b>BIOS</b>                                       |  |
| CPU fan connector                      | ✓   | BIOS type *                                       | UEFI AMI   |
| Number of chassis fan connectors       | 2   | BIOS memory size                                  | 256 Mbit   |
| EPS power connector (8-pin)            | ✓   |   |  |
| 12V power connector                    | ✓   |   |  |
| RGB LED pin header                     | ✓   |   |  |

| Rear panel I/O ports                              |   | Packaging data      |         |
|---|---|---------------------|---------|
| USB 2.0 ports quantity *                          | 4 | Package width       | 275 mm  |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2 | Package depth       | 275 mm  |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 1 | Package height      | 67.4 mm |
|   |   | Package weight      | 1.7 kg  |
|   |   | Weight & dimensions |         |
|   |   | Width               | 244 mm  |
|   |   | Depth               | 244 mm  |
|   |   | Height              | 50 mm   |
|   |   | Packaging content   |         |
|   |   | Cables included     | SATA    |
|   |   | Other features      |         |
|   |   | Weight              | 1.01 kg |



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