

## ASUS PRIME B650M-A WIFI II AMD B650 Socket AM5 micro ATX

**Brand :** ASUS

**Product code:** 90MB1EG0-M0EAY0

**Product name :** PRIME B650M-A WIFI II

- AMD AM5 Socket: Ready for AMD Ryzen™ 7000 Series Desktop Processors  
 - Ultrafast Connectivity: Wi-Fi 6, M.2 PCIe 5.0, Realtek 2.5Gb Ethernet, USB 3.2 Gen 2 ports, front USB 3.2 Gen 1 Type-C®  
 - ASUS OptiMem II: Careful routing of traces and vias, plus ground layer optimizations to preserve signal integrity for improved memory overclocking  
 - Comprehensive Cooling: VRM heatsink, PCH heatsink, hybrid fan headers and Fan Xpert 2+  
 - Aura Sync RGB Lighting: Onboard Addressable Gen 2 headers and Aura RGB header for RGB LED strips, easily synced with Aura Sync-capable hardware  
 AMD B650 Micro-ATX motherboard, DDR5, PCIe 5.0 M.2 support, Realtek 2.5Gb Ethernet, Wi-Fi 6, DisplayPort, VGA, HDMI®, SATA 6 Gbps, USB 3.2 Gen 2 ports, front USB 3.2 Gen 1 Type-C®, BIOS FlashBack™, Aura Sync



| Processor                              |                                                  | Rear panel I/O ports                |                                                                                      |
|----------------------------------------|--------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------|
| Processor manufacturer *               | AMD                                              | VGA (D-Sub) ports quantity *        | 1                                                                                    |
| Processor socket *                     | Socket AM5                                       | HDMI ports quantity *               | 1                                                                                    |
| Compatible processor series *          | AMD Ryzen™ 7                                     | DisplayPorts quantity               | 1                                                                                    |
| Memory                                 |                                                  | Headphone outputs                   | 1                                                                                    |
| Supported memory types *               | DDR5-SDRAM                                       | Line-in                             | ✓                                                                                    |
| Number of memory slots *               | 4                                                | Microphone in                       | ✓                                                                                    |
| Memory slots type                      | DIMM                                             | USB connector type                  | USB Type-A                                                                           |
| Memory channels                        | Dual-channel                                     | Network                             |                                                                                      |
| ECC compatibility                      | ECC & Non-ECC                                    | Ethernet LAN                        | ✓                                                                                    |
| Supported memory clock speeds          | 4800,5000,5200,5400,5600,5800,6000,6200,6400 MHz | Ethernet interface type             | 2.5 Gigabit Ethernet                                                                 |
| Maximum internal memory *              | 128 GB                                           | Wi-Fi *                             | ✓                                                                                    |
| Unbuffered memory                      | ✓                                                | Top Wi-Fi standard                  | Wi-Fi 6 (802.11ax)                                                                   |
| Storage controllers                    |                                                  | Wi-Fi standards                     | 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax) |
| Supported storage drive types          | HDD & SSD                                        | Bluetooth                           | ✓                                                                                    |
| Supported storage drive interfaces *   | M.2, PCI Express 4.0, PCI Express 5.0, SATA      | Bluetooth version                   | 5.2                                                                                  |
| Number of HDDs supported               | 4                                                | Features                            |                                                                                      |
| Number of storage drives supported     | 2                                                | Motherboard chipset *               | AMD B650                                                                             |
| RAID support                           | ✓                                                | Audio output channels *             | 7.1 channels                                                                         |
| RAID levels                            | 0, 1, 10                                         | Component for *                     | PC                                                                                   |
| Internal I/O                           |                                                  | Motherboard form factor *           | micro ATX                                                                            |
| USB 2.0 connectors *                   | 2                                                | Motherboard chipset family *        | AMD                                                                                  |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * | 2                                                | Power source type                   | ATX                                                                                  |
| Number of SATA connectors              | 4                                                | Windows operating systems supported | Windows 10, Windows 11                                                               |
| Total number of SATA connectors        | 4                                                | Expansion slots                     |                                                                                      |
| S/PDIF out connector                   | ✓                                                | PCI Express x16 (Gen 4.x) slots     | 3                                                                                    |
| Audio connector                        | ✓                                                | BIOS                                |                                                                                      |
| Front panel connector                  | ✓                                                | BIOS type *                         | UEFI AMI                                                                             |
| ATX Power connector (24-pin)           | ✓                                                | BIOS memory size                    | 256 Mbit                                                                             |
| Power fan connector                    | ✓                                                |                                     |                                                                                      |
| CPU fan connector                      | ✓                                                |                                     |                                                                                      |

| Internal I/O                                      |   | BIOS                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------|---|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of chassis fan connectors                  | 3 | Clear CMOS button              | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Peripheral (Molex) power connectors (4-pin)       | 4 | <b>Weight &amp; dimensions</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EPS power connector (8-pin)                       | ✓ | Width                          | 244 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Number of COM connectors                          | 1 | Depth                          | 244 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TPM connector                                     | ✓ | <b>Packaging content</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 12V power connector                               | ✓ | Cables included                | SATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| RGB LED pin header                                | ✓ | Bundled software               | ASUS Exclusive Software Armoury Crate - Aura Creator - Aura Sync - Fan Xpert 2+ - Power Saving AI Suite 3 - TurboV EVO - DIGI+ VRM - PC Cleaner ASUS CPU-Z MyASUS Norton Anti-virus software (Free Trial version) WinRAR UEFI BIOS ASUS EZ DIY - ASUS CrashFree BIOS 3 - ASUS EZ Flash 3 - ASUS UEFI BIOS EZ Mode                                                                                                                                                                                                                                                                                                                                                                                              |
| Rear panel I/O ports                              |   |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| USB 2.0 ports quantity *                          | 4 | Audio output                   | <b>Realtek 7.1 Surround Sound High Definition Audio CODEC*</b><br>- Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking<br>- Supports up to 24-Bit/192 kHz playback<br><b>Audio Features</b><br>- Audio Shielding<br>- Premium audio capacitors<br>- Dedicated audio PCB layers<br>* A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.                                                                                                                                                                                                                                                                                            |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2 |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 2 |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ethernet LAN (RJ-45) ports *                      | 1 |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                   |   | Special features               | <b>Other features</b><br><br><b>Total supports 2 x M.2 slots and 4 x SATA 6Gb/s ports*</b><br><b>AMD Ryzen™ 7000 Series Desktop Processors</b><br>M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode)<br><b>AMD B650 Chipset</b><br>M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)<br>4 x SATA 6Gb/s ports<br>* AMD RAIDXpert2 Technology supports both PCIe RAID 0/1/10 and SATA RAID 0/1/10.<br>1 x DisplayPort**<br>1 x VGA port<br>1 x HDMI® port***<br>* Graphics specifications may vary between CPU types. Please refer to AMD CPU specifications.<br>** Supports max. 8K@60Hz as specified in DisplayPort 1.4.<br>*** Supports 4K@60Hz as specified in HDMI® 2.1. |
|                                                   |   |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                   |   | Graphics output                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



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### Catalog Object Cloud



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