



ASUS PRIME B650M-K AMD B650 Socket AM5 micro ATX

Brand : ASUS

Product code: 90MB1F60-M0EAY0

Product name : PRIME B650M-K

- AMD AM5 Socket: Ready for AMD Ryzen™ 7000 Series Desktop Processors
 - Ultrafast Connectivity: 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, M.2 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 with DDR5, PCIe 5.0 M.2, 2.5Gb Ethernet, HDMI, VGA, rear USB 3.2 Gen 2, front USB 3.2 Gen 1 Type-C, BIOS FlashBack, Aura Sync



| Processor | | Internal I/O | |
|--|--|---|----------------------------|
| Processor manufacturer * | AMD | 12V power connector | ✓ |
| Processor socket * | Socket AM5 | RGB LED pin header | ✓ |
| Compatible processor series * | AMD Ryzen™ 5, AMD Ryzen™ 7, AMD Ryzen 9 7th Gen | Rear panel I/O ports | |
| Supported processor sockets | Socket AM5 | USB 2.0 ports quantity * | 4 |
| Memory | | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2 |
| Supported memory types * | DDR5-SDRAM | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 2 |
| Number of memory slots * | 2 | Ethernet LAN (RJ-45) ports * | 1 |
| Memory slots type | DIMM | PS/2 ports quantity | 1 |
| Memory channels | Dual-channel | VGA (D-Sub) ports quantity * | 1 |
| ECC compatibility | ECC & Non-ECC | HDMI ports quantity * | 1 |
| Supported memory clock speeds | 4800,5000,5200,5400,5600,5800,6000,6200,6400 MHz | Headphone outputs | 1 |
| Supported memory clock speed (max) | 6400 MHz | Line-in | ✓ |
| Maximum internal memory * | 96 GB | Microphone in | ✓ |
| Unbuffered memory | ✓ | Network | |
| Storage controllers | | Ethernet LAN | ✓ |
| Supported storage drive types | HDD & SSD | Ethernet interface type | 2.5 Gigabit Ethernet |
| Supported storage drive interfaces * | M.2, SATA III | Wi-Fi * | ✗ |
| Number of HDDs supported | 4 | Features | |
| Number of storage drives supported | 6 | Motherboard chipset * | AMD B650 |
| RAID support | ✓ | Audio output channels * | 7.1 channels |
| RAID levels | 0, 1, 10 | Component for * | PC |
| Graphics | | Motherboard form factor * | micro ATX |
| Parallel processing technology support * | Not supported | Motherboard chipset family * | AMD |
| Internal I/O | | Windows operating systems supported | Windows 10 x64, Windows 11 |
| USB 2.0 connectors * | 2 | Expansion slots | |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * | 2 | PCI Express x1 (Gen 4.x) slots | 2 |
| Number of SATA III connectors * | 4 | PCI Express x16 (Gen 4.x) slots | 2 |
| S/PDIF out connector | ✓ | Number of M.2 (M) slots | 2 |
| Audio connector | ✓ | | |

| Internal I/O | | BIOS | |
|----------------------------------|---|--------------------------------|----------|
| Front panel audio connector | ✓ | BIOS type * | UEFI AMI |
| ATX Power connector (24-pin) | ✓ | BIOS memory size | 256 Mbit |
| CPU fan connector | ✓ | Packaging data | |
| Number of chassis fan connectors | 2 | Package width | 260 mm |
| EPS power connector (8-pin) | ✓ | Package depth | 270 mm |
| Number of COM connectors | 1 | Package height | 51.5 mm |
| TPM connector | ✓ | Package weight | 1.07 kg |
| | | Weight & dimensions | |
| | | Width | 244 mm |
| | | Depth | 221 mm |
| | | Packaging content | |
| | | Cables included | SATA |



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