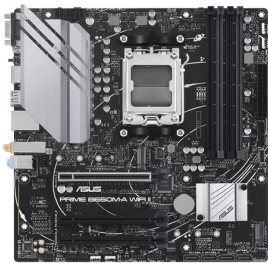# ASUS PRIME B650M-A WIFI II - motherboard - micro ATX - Socket AM5 - AMD B650(90MB1EG0-M0EAY0)

ASUS PRIME B650M-A WIFI II - Motherboard - micro ATX - Socket AM5 - AMD B650 Chipset - USB 3.2 Gen 1, USB 3.2 Gen 2, USB-C 3.2 Gen 1 - 2.5 Gigabit LAN, Wi-Fi 6, Bluetooth - onboard graphics (CPU required) - HD Audio (8-channel)

Discover the ASUS PRIME B650M-A WIFI II, a motherboard designed to elevate your computing experience. With support for DDR5 SDRAM, this motherboard allows for speeds up to 7200 MHz (O.C.), ensuring your system runs smoothly even under heavy loads. It features a comprehensive suite of connectivity options, including HDMI, DisplayPort, VGA, and multiple USB ports, making it easy to connect all your devices. The inclusion of 2.5 Gigabit Ethernet, Bluetooth 5.2, and Wi-Fi 6 ensures you're always connected with fast and reliable network connections. High definition audio with 8-channel support offers a rich, detailed sound experience, perfect for gaming, movies, and music. Additionally, the motherboard supports advanced storage configurations with M.2 and SATA-600 RAID, providing flexibility and speed for all your storage needs. Whether you're gaming, creating content, or multitasking, the ASUS PRIME B650M-A WIFI II motherboard is built to meet the demands of modern computing.

Key Selling Points

Supports DDR5 SDRAM with speeds up to 7200 MHz (O.C.) for enhanced system performance
2.5 Gigabit Ethernet, Bluetooth 5.2, and Wi-Fi 6 support for high-speed and versatile networking
Multiple USB ports including USB 3.2 Gen 2 and USB-C for extensive connectivity options
High definition audio with 8-channel support for an immersive sound experience
M.2 and SATA-600 RAID support for advanced storage configurations

Product Features

Enhanced connectivity
With a variety of interfaces including HDMI, DisplayPort, VGA, USB 3.2 Gen 2, and USB 3.2 Gen 1, this motherboard offers extensive connectivity options for a wide range of devices, ensuring that users can connect all their peripherals with ease.

Robust audio experience
Featuring high definition audio with an 8-channel sound card, the motherboard delivers a rich, detailed sound experience, enhancing gameplay, movies, and music listening.

Advanced storage solutions
Equipped with M.2 sockets and Serial ATA-600 (RAID) storage interfaces, the motherboard supports high-speed data transfers and flexible storage configurations, allowing for improved system performance and reliability.

High-speed memory support
Supporting DDR5 SDRAM with speeds up to 7200 MHz (O.C.), this motherboard enables faster data processing and improved system responsiveness, making it ideal for gaming, content creation, and heavy multitasking.

Advanced networking
With 2.5 Gigabit Ethernet, Bluetooth 5.2, and Wi-Fi 6 (802.11a/b/g/n/ac/ax) support, the motherboard offers fast and versatile networking options, ensuring stable and speedy connections for online gaming and streaming.

Main Specifications

Product Description	ASUS PRIME B650M-A WIFI II - motherboard - micro ATX - Socket AM5 - AMD B650
Product Type	Motherboard - micro ATX
Chipset Type	AMD B650
Processor Socket	1 x Socket AM5
Compatible Processors	Ryzen (supports Ryzen 7000 Series)
Max RAM Size	192 GB
RAM Supported	4 DIMM slots - DDR5, non-ECC, on-die ECC, ECC, unbuffered
Storage Ports	4 x SATA-600 (RAID), 2 x M.2

USB / FireWire Ports	2 x USB 3.2 Gen 2 + 2 x USB 3.2 Gen 1 + 4 x USB 2.0 + (1 x USB-C 3.2 Gen 1 + 2 x USB 3.2 Gen 1 + 4 x USB 2.0 via headers)
Audio	HD Audio (8-channel)
LAN	2.5 Gigabit Ethernet, 802.11a/b/g/n/ac/ax, Bluetooth 5.2

Extended Specification

General

Product Type	Motherboard - micro ATX
Chipset Type	AMD B650
Processor Socket	Socket AM5
Max Processors Qty	1
Compatible Processors	Ryzen (supports Ryzen 7000 Series)

Expansion / Connectivity

Expansion Slots	1 x CPU ¦ 4 x DIMM 288-pin ¦ 1 x PCIe 4.0 x16 ¦ 2 x PCIe 4.0 x16 (x1 mode) ¦ 2 x M.2 socket (2242/2260/2280 M.2 Key M slot)
Storage Interfaces	SATA-600 -connectors: 4 x 7pin Serial ATA - RAID 0 / RAID 1 / RAID 10 ¦ PCIe 5.0 -connectors: 1 x M.2 - RAID 0 / RAID 1 / RAID 10 ¦ PCIe 4.0 -connectors: 1 x M.2 - RAID 0 / RAID 1 / RAID 10
Interfaces	1 x HDMI ¦ 1 x DisplayPort ¦ 1 x VGA ¦ 2 x USB 3.2 Gen 2 ¦ 2 x USB 3.2 Gen 1 ¦ 4 x USB 2.0 ¦ 1 x LAN (2.5Gigabit Ethernet) ¦ 1 x audio line-out - mini-jack ¦ 1 x audio line-in - mini-jack ¦ 1 x microphone - mini-jack ¦ 2 x aerial ¦ 1 x PS/2 keyboard / mouse
Internal Interfaces	1 x USB-C 3.2 Gen 1 - header ¦ 2 x USB 3.2 Gen 1 - header ¦ 4 x USB 2.0 - header ¦ 1 x serial - header ¦ 1 x audio - header ¦ 1 x SPDIF out - header ¦ 1 x speaker - header ¦ 1 x SPI - header
Power Connectors	24-pin main power connector, 8-pin ATX12V connector, 4-pin ATX12V connector

Miscellaneous

Included Accessories	ASUS Wi-Fi moving aerial, IO shield, M.2 screw package
Cables Included	2 x Serial ATA cable
Software Included	Armoury Crate, ASUS AURA Creator, ASUS Fan Xpert 2+, ASUS AI Suite III, PC Cleaner, ASUS CPU-Z, MyAsus, Norton AntiVirus (Trial), ASUS TurboV EVO Utility, WinRAR
Width	24.4 cm
Depth	24.4 cm

Audio

Type	HD Audio (8-channel)
Compliant Standards	High Definition Audio

Features

BIOS Type	AMI
BIOS Features	UEFI BIOS, ASUS EZ Flash 3, ASUS UEFI BIOS EZ Mode
Sleep / Wake Up	Wake on LAN (WOL), wake on PME
Hardware Features	ASUS EZ DIY, ASUS OptiMem II, BIOS FlashBack button, jack retasking, audio jack detect technology, ASUS 5X Protection III, ASUS DIGI+ VRM, LANGuard, ASUS Overvoltage Protection, ASUS SafeSlot Core+, ASUS Stainless Steel Back I/O, ASUS Q-Design, Q-DIMM, Q-Slot, VRM heatsink design, Q-LED Core, CrashFree BIOS 3, ASUS TurboV EVO, ASUS Aura Sync, DIY Friendly Design, Preboot eXecution Environment (PXE)

LAN

Network Interfaces	2.5 Gigabit Ethernet, 802.11a/b/g/n/ac/ax, Bluetooth 5.2

Supported RAM

Max Size	192 GB
Technology	DDR5
Bus Clock	7200 MHz (O.C.), 7000 MHz (O.C.), 6800 MHz (O.C.), 6600 MHz (O.C.), 6400 MHz (O.C.), 6200 MHz (O.C.), 6000 MHz (O.C.), 5800 MHz (O.C.), 5600 MHz (O.C.), 5400 MHz (O.C.), 5200 MHz, 5000 MHz, 4800 MHz
Supported RAM Integrity Check	Non-ECC, on-die ECC, ECC
Registered or Buffered	Unbuffered
Features	Dual channel memory architecture, AMD EXPO technology