

ASUS PRIME B850-PLUS-CSM - motherboard - ATX - Socket AM5 - AMD B850(90MB1LC0-M0EAYC)

ASUS PRIME B850-PLUS-CSM - Motherboard - ATX - Socket AM5 - AMD B850 Chipset - USB-C 3.2 Gen2, USB 3.2 Gen 2, USB 3.2 Gen 1, USB-C 3.2 Gen 1 - 2.5 Gigabit LAN - onboard graphics (CPU required) - HD Audio (8-channel)



The ASUS PRIME B850-PLUS-CSM is a versatile motherboard designed for high-performance computing. This ATX form factor board supports the AMD B850 chipset and is compatible with Ryzen 7000/8000/9000 Series processors, allowing for advanced processing capabilities. It features 4 DIMM slots supporting DDR5 SDRAM at speeds of up to 4000 MHz (O.C.), ensuring ample room for memory expansion and efficient operation.

Equipped with multiple USB interfaces, including USB 3.2 Gen 2 and USB-C options, the motherboard ensures swift data transfer and connectivity for various peripherals. The integrated 2.5 Gigabit Ethernet provides enhanced networking capabilities, making it suitable for casual users and gamers. With its cooling features, including an M.2 heatsink and VRM heatsink design, the ASUS PRIME B850-PLUS-CSM enables optimal thermal performance during intense tasks, offering a reliable foundation for any build.

Key Selling Points

- Supports AMD Ryzen 7000/8000/9000 Series processors
- 4 DIMM slots with DDR5 support for high-speed memory
- Multiple USB connectivity options including USB-C
- Integrated 2.5 Gigabit Ethernet for fast networking
- Cooling features for sustained performance

Product Features

- Robust connectivity options**
The motherboard features multiple expansion slots, including PCIe 5.0 x16 and a variety of USB ports, providing options for connecting additional hardware and peripherals.
- Efficient thermal management**
With specialized elements like an M.2 heatsink and VRM heatsink design, the motherboard helps maintain optimal temperatures even during demanding tasks, promoting system longevity.
- Advanced audio capabilities**
The onboard audio system supports high definition audio output with 8-channel capability, ensuring immersive sound quality for gaming and media consumption.
- User-friendly BIOS features**
The AMI BIOS includes helpful utilities such as ASUS EZ Flash 3 and CrashFree BIOS 3, simplifying system management and recovery.
- Networking flexibility**
Equipped with 2.5 Gigabit Ethernet and Bluetooth, this motherboard supports high-speed wired connections along with versatile wireless options for seamless online experiences.

Main Specifications

Product Description	ASUS PRIME B850-PLUS-CSM - motherboard - ATX - Socket AM5 - AMD B850
Product Type	Motherboard - ATX
Chipset Type	AMD B850
Processor Socket	1 x Socket AM5
Compatible Processors	Ryzen (supports Ryzen 7000/8000/9000 Series)
Max RAM Size	256 GB
RAM Supported	4 DIMM slots - DDR5, non-ECC, on-die ECC, unbuffered
Storage Ports	4 x SATA-600 (RAID), 3 x M.2

USB / FireWire Ports	1 x USB-C 3.2 Gen 2 + 3 x USB 3.2 Gen 2 + 2 x USB 3.2 Gen 1 + 2 x USB 2.0 + (1 x USB4 + 1 x USB-C 3.2 Gen 1 + 2 x USB 3.2 Gen 1 + 6 x USB 2.0 via headers)
Audio	HD Audio (8-channel)
LAN	2.5 Gigabit Ethernet

Extended Specification

General

Product Type	Motherboard - ATX
Chipset Type	AMD B850
Processor Socket	Socket AM5
Max Processors Qty	1
Compatible Processors	Ryzen (supports Ryzen 7000/8000/9000 Series)

Expansion / Connectivity

Expansion Slots	1 x CPU 4 x DIMM 288-pin 1 x PCIe 5.0 x16 1 x PCIe 4.0 x16 (x4 mode) 2 x M.2 socket (2280 M.2 Key M slot) 1 x M.2 socket (2242/2260/2280/22110 M.2 Key M slot)
Storage Interfaces	SATA-600 -connectors: 4 x 7pin Serial ATA - RAID 0 / RAID 1 / RAID 10 / RAID 5 PCIe 5.0 -connectors: 1 x M.2 - RAID 0 / RAID 1 / RAID 10 / RAID 5 PCIe 4.0 - connectors: 2 x M.2 - RAID 0 / RAID 1 / RAID 10 / RAID 5
RAID Features	AMD RAID Xpert2 Technology
Interfaces	1 x USB-C 3.2 Gen 2 3 x USB 3.2 Gen 2 2 x USB 3.2 Gen 1 2 x USB 2.0 1 x DisplayPort 1 x HDMI 2 x aerial 1 x LAN (2.5Gigabit Ethernet) 1 x microphone - mini-jack 1 x audio line-out - mini-jack 1 x audio line-in - mini-jack
Internal Interfaces	6 x USB 2.0 - header 2 x USB 3.2 Gen 1 - header 1 x USB-C 3.2 Gen 1 - header 1 x audio - header 1 x serial - header 1 x Thunderbolt 4 - header 1 x SPDIF out - header 1 x SPI - header
Power Connectors	24-pin main power connector, 4-pin ATX12V connector, 8-pin ATX12V connector

Miscellaneous

Included Accessories	1 x M.2 rubber package, 3 x M.2 SSD screw package
Cables Included	2 x Serial ATA cable
Software Included	Armoury Crate, Adobe Creative Cloud (free trial), ASUS AI Advisor, ASUS AURA Creator, ASUS CPU-Z, ASUS DriverHub, ASUS Fan Xpert 2+, ASUS GlideX, Norton 360 Deluxe (60 days trial), TurboV Core, WinRAR (40 days trial)
Width	30.5 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	Preboot eXecution Environment (PXE), CrashFree BIOS 3, ASUS 5X Protection III, ASUS Aura Sync, ASUS DIGI+ VRM, ASUS EZ DIY, ASUS Overvoltage Protection, ASUS Q-Design, ASUS SafeSlot, ASUS Stainless Steel Back I/O, BIOS FlashBack button, BIOS FlashBack LED, LANGuard, M.2 heatsink, pre-mounted I/O shield, Q-Antenna, Q-Dashboard, Q-DIMM, Q-LED Core, Q-Slot, VRM heatsink design, 8+2+1 Phase Power Design, ASUS Enhanced Memory Profile (AEMP), chipset heatsink, 6 Layer PCB

LAN

Network Interfaces	2.5 Gigabit Ethernet
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Supported RAM

Max Size	256 GB
Technology	DDR5
Bus Clock	8000 MT/s (O.C.)
Supported RAM Integrity Check	Non-ECC, on-die ECC
Registered or Buffered	Unbuffered
Features	AMD EXPO technology, dual channel memory architecture

What's in the box

- ASUS PRIME B850-PLUS-CSM
- 2 x Serial ATA cable
- 1 x M.2 rubber package, 3 x M.2 SSD screw package
- Software

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