

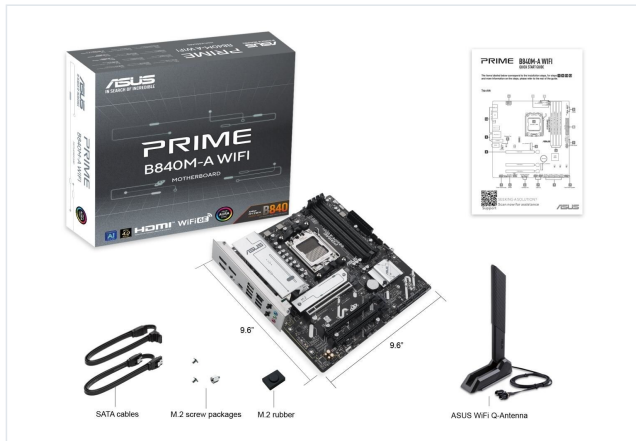
ASUS PRIME B840M-A WIFI

Asus Prime B840M-A WiFi AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 mATX Motherboard

Product Overview

Asus Prime B840M-A WiFi AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 mATX Motherboard, AMD B840 Chipset, 4x DDR5 DIMM Memory slots, 2x DisplayPort, 1x HDMI Port, 1x PCI-e 4.0 x16 slot (Supports x16 mode), 2x PCI-e 3.0 x16 slots (Support x1 mode), 3x M.2 slots supports up to PCI-e 4.0 x4 mode, 4x SATA 6Gb/s Ports, 1x Realtek 2.5Gb Ethernet, Wi-Fi 6E, Bluetooth V5.3, USB 10Gbps Ports (Type-A), USB 5Gbps Port (Type-C), USB 2.0 Ports (Type-A), 3x audio jacks, 1x BIOS FlashBack Button





Specifications

Overview:

B840M-A WIFI

ASUS Prime series motherboards are expertly engineered to unleash the full potential of AMD Ryzen9000 series processors. The PRIME B840M-A WIFI motherboard provides users and PC DIY builders with a range of performance optimizations via intuitive software and firmware features. It's designed to be Advanced AI PC-ready, offering the power and connectivity needed for demanding AI applications.

Features:

Performance - AI Solutions

ASUS AI Solutions include AI Advisor as your technical expert with expertise in PC performance.

AI Advisor

ASUS AI Advisor allows users to explore the functionality and advanced features of ASUS motherboards in a simple and straightforward way.

Enhanced DDR5 performance

Comprehensive memory tuning options are the cornerstone of PRIME motherboards. The PRIME B840M-A WIFI maximizes the potential of your DDR5 modules, from entry-level to extreme-speed kits.

For entry-level modules without EXPO support, ASUS Enhanced Memory Profile (AEMP) automatically detects memory chips and provides optimized profiles for enhanced performance.

For those looking to surpass stock DDR5 speeds, the PRIME B840M-A WIFI offers extensive AMD Extended Profiles for Overclocking (EXPO) support and a wide array of UEFI settings for further performance tweaks.

Three M.2 slots (up to 64 Gbps)

PRIME B840M-A WIFI offers a total of three M.2 slots, including two that support data-transfer speeds of up to 64 Gbps via PCIe 4.0, and one that supports PCIe 3.0. This enables quicker boot-up and app load times with OS or application drives.

Cooler by design

The PRIME B840M-A WIFI motherboard is engineered with multiple onboard heatsinks and an array of hybrid fan headers to help ensure your rig stays cool and stable under intense workloads.

ASUS Fan Xpert 2+

ASUS Fan Xpert 2+ software provides comprehensive control over fans. An Auto-Tuning mode intelligently configures all parameters with a single click. There's also an Extreme Quiet mode that reduces chassis fan speeds to below the default minimum to keep your system whisper-quiet when performing light tasks. Fans can also be controlled via the UEFI BIOS.

Cooler compatibility

ASUS AIO coolers offer robust performance, high overclocking potential, bold aesthetics and customizable functionality for new motherboards, empowering you to build your dream gaming rig.

Empowering connections

This motherboard offers a versatile range of connectivity, including support for WiFi 6E, PCIe 4.0 slot and an arsenal of USB ports which includes Type-Cconnections.

- WiFi 6E
- 2.5Gb Ethernet
- PCIe 4.0
- PCIe 4.0 slot
- USB 5Gbps

WiFi 6E

Built-in WiFi 6E technology takes advantage of the newly available radio spectrum in the 6 GHz band. With triple the bandwidth of the 2.4/5/6 GHz band, WiFi 6E delivers ultrafast wireless networking speeds with improved capacity and better performance in dense wireless environments.

Realtek 2.5 Gb Ethernet

Realtek 2.5 Gb Ethernet reduces CPU overhead and offers exceptionally high TCP and UDP throughput for faster, smoother data transfers.

Front USB 5Gbps Type-C

This motherboard features a USB 5Gbps Type-C front panel connector for speedy data transfers of up to 5Gbps.

Q-Antenna

With Q-Antenna, attaching a WiFi antenna to your PC is now easy and fast. Instead of slowly rotating two fasteners until they finally lock in, they just snap into place. Less hassle, and more consistent performance.

Specifications:

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Specifications	
Product Code	ASUS PRIME B840M-A WIFI
Model	PRIME B840M-A WIFI
CPU	AMD Socket AM5 for AMD Ryzen 9000 & 8000 & 7000 Series Desktop Processors
Chipset	AMD B840 Chipset
Memory	4 x DIMM slots, max. 192GB, DDR5
	Supports up to 7600+MT/s (OC) with Ryzen 9000 & 8000 & 7000 Series Processors, ECC and Non-ECC, Un-buffered DIMM
	Dual channel memory architecture
	Supports AMD Extended Profiles for Overclocking (EXPO)
	ASUS Enhanced Memory Profile (AEMP)
	Adjustments will be made based on the specifications of mass-produced memory products available on the market.
	* Non-ECC, un-buffered DDR5 memory supports On-Die ECC function.

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Product Specification Sheet

Graphics	2 x DisplayPort
	1 x HDMI port
	* Graphics specifications may vary between CPU types. Please refer to AMD CPU specifications.
	** Supports max. 8K@30Hz as specified in DisplayPort 1.4.
	* Supports 4K@60Hz as specified in HDMI 2.1.
Expansion Slots	AMD Ryzen 9000 & 7000 Series Desktop Processors
	1 x PCIe 4.0 x16 slot (supports x16 mode)
	AMD Ryzen 8000 Series Desktop Processors
	1 x PCIe 4.0 x16 slot (supports x8/x4 mode)
	AMD B840 Chipset
	2 x PCIe 3.0 x16 slots (support x1 mode)
	** Specifications vary by CPU types.
Storage	Total supports 3 x M.2 slots and 4 x SATA 6Gb/s ports
	AMD Ryzen 9000 & 7000 Series Desktop Processors
	M.2_1 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)
	M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)
	AMD Ryzen 8000 Series Desktop Processors
	M.2_1 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)
	M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4/x2 mode)
	AMD B840 Chipset
	M.2_3 slot (Key M), type 2280 (supports PCIe 3.0 x4 mode)
	4 x SATA 6Gb/s ports
	* Specifications vary by CPU types.
	AMD RAIDXpert2 Technology
	Ryzen 9000 Series Processors: RAID 0/1/5/10
	Ryzen 8000 Series Processors: RAID 0/1
	Ryzen 7000 Series Processors: RAID 0/1/10
Ethernet	1 x Realtek 2.5Gb Ethernet
	ASUS LANGuard
Wireless & Bluetooth	Wi-Fi 6E
	2x2 Wi-Fi 6E (802.11ax)
	Supports 2.4/5/6GHz frequency band
	Bluetooth v5.3
	* WiFi 6E 6GHz regulatory may vary between countries, supported only in Windows 11 or later.
	** The Bluetooth version may vary, please refer to the Wi-Fi module manufacturer's website for the latest specifications.

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Product Specification Sheet

USB	Rear USB (Total 7 ports)
	2 x USB 10Gbps ports (2 x Type-A)
	1 x USB 5Gbps port (1 x USB Type-C)
	4 x USB 2.0 ports (4 x Type-A)
	Front USB (Total 7 ports)
	1 x USB 5Gbps connector (supports USB Type-C)
	1 x USB 5Gbps header supports 2 additional USB 5Gbps ports
	2 x USB 2.0 headers support 4 additional USB 2.0 ports
	* USB Type-C power delivery output: max. 5V/3A
Audio	Realtek 7.1 Surround Sound High Definition Audio CODEC
	- Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking
	- Supports up to 24-Bit/192 kHz playback
	Audio Features
	- Audio Shielding
	- Premium audio capacitors
	- Dedicated audio PCB layers
	* A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.
Back Panel I/O Ports	2 x USB 10Gbps ports (2 x Type-A)
	1 x USB 5Gbps port (1 x USB Type-C)
	4 x USB 2.0 ports (4 x Type-A)
	2 x DisplayPort
	1 x HDMI port
	1 x Wi-Fi module
	1 x Realtek 2.5Gb Ethernet port
	3 x Audio jacks
	1 x BIOS FlashBack button

Internal I/O Connectors	Fan and Cooling Related
	1 x 4-pin CPU Fan header
	1 x 4-pin CPU OPT Fan header
	1 x 4-pin AIO Pump header
	3 x 4-pin Chassis Fan headers
	Power Related
	1 x 24-pin Main Power connector
	1 x 8-pin +12V CPU Power connector
	Storage Related
	3 x M.2 slots (Key M)
	4 x SATA 6Gb/s ports
	USB
	1 x USB 5Gbps connector (supports USB Type-C)
	1 x USB 5Gbps header supports 2 additional USB 5Gbps ports
	2 x USB 2.0 headers support 4 additional USB 2.0 ports
	Miscellaneous
	3 x Addressable Gen 2 headers
	1 x Clear CMOS header
	1 x COM Port header
	1 x Front Panel Audio header (F_AUDIO)
	1 x S/PDIF Out header
	1 x SPI TPM header (14-1 pin)
	1 x 10-1 pin Front Panel System header

Special Features	ASUS 5X PROTECTION III
	- DIGI+ VRM
	- LANGuard
	- Overvoltage protection
	- SafeSlot Core+
	- Stainless-steel back I/O
	ASUS Q-Design
	- Q-Antenna
	- Q-Dashboard
	- Q-DIMM
	- Q-LED Core
	- Q-Slot
	ASUS Thermal Solution
	- M.2 heatsink
	- VRM heatsink design
	ASUS EZ DIY
	- BIOS FlashBack button
	- BIOS FlashBack LED
	- Pre-mounted I/O shield
	Aura Sync
	- Addressable Gen 2 headers

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Product Specification Sheet

Software Features	ASUS Exclusive Software
	Armoury Crate
	- Aura Creator
	- Aura Sync
	- Fan Xpert 2+
	- Power Saving
	ASUS DriverHub
	ASUS GlideX
	TurboV Core
	ASUS CPU-Z
	Adobe Creative Cloud (Free Trial)
	Norton 360 Deluxe (60 Days Free Trial)
	WinRAR (40 Days Free Trial)
	UEFI BIOS
	ASUS EZ DIY
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	- ASUS UEFI BIOS EZ Mode
	- ASUS MyHotkey
BIOS	256 Mb Flash ROM, UEFI AMI BIOS
Manageability	WOL by PME, PXE
Accessories	Cables
	2 x SATA 6Gb/s cables
	Miscellaneous
	1 x ASUS WiFi Q-Antenna
	1 x M.2 rubber package
	2 x Screw packages for M.2 SSD
	Documentation
	1 x Quick start guide
Operating System	Windows 11, Windows 10 64-bit
Form Factor	micro-ATX Form Factor
	9.6 inch x 9.6 inch (24.4 cm x 24.4 cm)

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:

<https://www.comx-computers.co.za/ASUS-PRIME-B840M-A-WIFI-Asus-Prime-B840M-A-WiFi-AMD-Buy-p-317985.php>

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