



**Mainboard
ASROCK AMD
B850 Socket
AM5 micro ATX
RAM DDR5-
SDRAM 4xSlots
Wi-Fi Yes
Bluetooth Yes
1xNumber of
M.2 (M) slots
B850MCHALLENGER**

Model: B850M CHALLENGER

Manufacturer: ASROCK

EAN: 4711581494121

Product Code: 1243832

R3,246

Forge the Future Dominate the Game

Challenger Series is all about fearless play, bold breakthroughs, and relentless evolution. Packed

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with solid specs at a gamer-friendly price, it's the ultimate option for gamers.

DDR5 XMP & EXPO Support

Derived from the “built for stable and reliable” designing concept, ASRock does not compromise on any details. This motherboard is built with high quality materials, enthusiasts are able to enjoy the boost of DDR5 memory overclocking performance by enabling the pre-tested profiles. Make sure the memory modules are Intel® XMP/AMD EXPO™ capable and overclocking can be made so affordable, satisfying and absolutely no sweat at all.

PCIe Gen5 Blazing M.2

The Blazing M.2 accommodates the latest PCI Express 5.0 standard to perform twice the bandwidth compared to previous generation, with a breathtaking 128Gb/s transfer speed, it is ready to unleash the full potential of future ultrafast SSDs.

Aluminum Heatsink

The first thing that catches the eye is the optimized Aluminum Heatsink Design. Heatsinks are crucial for efficient heat dissipation, especially during heavy workloads like gaming or productivity tasks. Motherboard that built with heatsinks can effectively manage thermal performance, hence ensure system stability and durability effortlessly.

Built-in Bluetooth

Connect wireless peripherals and accessories with ease. From keyboards and mice to headsets, controllers, speakers, and smartphones, built-in Bluetooth helps reduce cable clutter and makes daily wireless pairing more convenient.

Dragon 2.5 Gb/s LAN

The intelligent 2.5Gb/s LAN platform is built for maximum networking performance for the demanding requirements of home networking, content creators, online gamers and high-quality streaming media. Boost networking performance up to 2.5X the bandwidth compared to the standard gigabit Ethernet, you'll enjoy the faster and uncompromised connectivity experience for gaming, file transfers and backups.

Front USB 3.2 Gen1 Type-C

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Front USB 3.2 Gen1 Type-C header delivers up to 5 Gbps data transfer rate and next generation reversible USB design to the front panel of computer case.

POLYCHROME RGB

This motherboard features onboard RGB headers and addressable RGB headers that allow motherboard to be connected to compatible LED devices such as strip, CPU fans, coolers, chassis and so on. Users may also synchronize RGB LED devices across the Polychrome RGB Sync-certified accessories to create their own unique lighting effects.

SignalRGB

SignalRGB unifies your RGB devices, offering seamless customization, game-reactive effects, macro automation, and system monitoring. The official partnership empowers ASRock motherboards with advanced lighting control, enhances compatibility with a diverse range of RGB devices, and provides greater customization flexibility.

One-Click to AI Agents - ASRock Claw Quickset

ASRock Claw Quickset is a Windows desktop utility that simplifies the deployment of OpenClaw and local AI models. It automates installation, configuration, and environment setup, allowing users to start using AI with minimal technical knowledge.

Summary: Asrock B850M Challenger WiFi. Processor manufacturer: AMD, Processor socket: Socket AM5, Compatible processor series: AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series. Supported memory types: DDR5-SDRAM, Maximum internal memory: 256 GB, Memory slots type: DIMM. Supported storage drive interfaces: M.2, SATA III, RAID levels: 0, 1, 10. Ethernet interface type: 2.5 Gigabit Ethernet, LAN controller: Dragon RTL8125BG, Top Wi-Fi standard: Wi-Fi 7 (802.11be). Component for: PC, Motherboard form factor: micro ATX, Motherboard chipset family: AMD | Vendor Homepage:

<https://asrock.com/mb/AMD/B850M%20Challenger%20WiFi/index.asp#Specification> | Motherboard chipset: AMD B850 | Audio chip: Realtek ALC897 | Component for: PC | Motherboard form factor: micro ATX | Audio output channels: 7.1 | Motherboard chipset family: AMD | Windows operating systems supported: Windows 10 x64/Windows 11 x64 | Processor manufacturer: AMD | Processor socket: Socket AM5 | Compatible processor series: AMD Ryzen 7000 Series/AMD Ryzen 8000 Series/AMD Ryzen 9000 Series | Maximum number of SMP processors: 1 | Supported memory types: DDR5-SDRAM | Number of memory slots: 4 | Memory slots type: DIMM | Memory channels: Dual-

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channel | ECC compatibility: ECC & Non-ECC | Maximum internal memory: 256 | Supported storage drive interfaces: M.2,SATA III | RAID support: Yes | RAID levels: 0/1/10 | USB 2.0 connectors: 2 | USB 3.2 Gen 1 (3.1 Gen 1) connectors: 1 | USB 3.2 Gen 2 (3.1 Gen 2) connectors: 1 | Number of SATA III connectors: 4 | Front panel audio connector: Yes | ATX Power connector (24-pin): Yes | CPU fan connector: Yes | Number of CPU fan connectors: 2 | Number of chassis fan connectors: 3 | Peripheral (Molex) power connectors (4-pin): 1 | EPS power connector (8-pin): Yes | Number of EPS power connectors (8-pin): 1 | RGB LED pin header: Yes | USB 2.0 ports quantity: 2 | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity: 6 | Ethernet LAN (RJ-45) ports: 1 | HDMI ports quantity: 1 | Headphone outputs: 1 | Line-in: Yes | Microphone in: Yes | Ethernet LAN: Yes | Ethernet interface type: 2.5 Gigabit Ethernet | LAN controller: Dragon RTL8125BG | Wi-Fi: Yes | Top Wi-Fi standard: Wi-Fi 7 (802.11be) | Wi-Fi standards: 802.11a/802.11b/802.11g/Wi-Fi 4 (802.11n)/Wi-Fi 5 (802.11ac)/Wi-Fi 6 (802.11ax)/Wi-Fi 7 (802.11be) | Bluetooth: Yes | Bluetooth version: 5.4 | PCI Express x1 (Gen 4.x) slots: 1 | PCI Express x16 (Gen 4.x) slots: 1 | PCI Express x16 (Gen 5.x) slots: 1 | Number of M.2 (M) slots: 1 | BIOS type: UEFI AMI | BIOS memory size: 512 | Width: 244 | Depth: 244 | Antenna included: Yes | Cables included: SATA | Unit Calculated Weight: 1.36 | Product Net Weight: 1 | Unit Calculated Volume: 0.005357 | Units per Shipping Box: 10 | Unit Width: 6 | Units per Pallet: 0 | Shipping Box Height: 32 | Unit Depth: 29.5 | Unit Height: 26.5 | Name: MB AMD B850 SAM5 MATX/B850M CHALLENGER ASROCK

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