



Mainboard
ASROCK AMD
B850 SAM5
Micro-ATX
Memory DDR5
Memory slots 4
1xPCI-Express
4.0 4x 1xPCI-
Express 5.0 16x
1xM.2 1xHDMI
1xDisplayPort
1xAudio-In
1xAudio-Out
1xMicrophone
4xUSB 2.0
3xUSB 3.2
1xUSB-C 1xRJ45
B850MPRORSWIFI

Model: B850M PRO RS WIFI

Manufacturer: ASROCK

EAN: 4711581490352

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R3,418

Optimized for stability, durability, and efficiency. It combines reliable performance, user-friendly features and streamlined style for daily computing tasks.

Optimized VRM Design

8+2+1 Power Phase Design

Featuring sturdy components and completely smooth power delivery to the CPU, offering enhanced performance for gamers.

Dr. MOS

Dr.MOS is the integrated power stage solution which is optimized for synchronous buck-set down voltage applications! Compared to traditional discrete MOSFETs, it intelligently delivers higher current for each phase, thus providing improved thermal result and superior performance.

Hi-Density Power Connector

CPU overclocking requires higher current. ASRock Hi-Density Power Connectors are designed to withstand higher currents compared to traditional CPU and ATX power connectors, providing a more stable system and reducing the risk of fire during heavy overclocking.

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6 Layer PCB

The 6 Layer PCB provides stable signal traces and power shapes delivering lower temperature and

higher energy efficiency for memory overclocking! Thus, it's able to support the latest memory modules with most extreme memory performance!

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.

High Speed M.2 Solution

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.

Hyper M.2 Gen4 x4

Supports PCI Express 4.0 M.2 SSDs, it is capable of perform twice the speed compared to previous 3rd generation, giving a lightning fast data transferring experience.

DIY Friendly Design

The M.2 bottom heatsink is able to dissipate heat of the M.2 SSD efficiently through the motherboard PCB, maximize performance while maintaining system stability.

Intelligent Cooling Design

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.

PWM/DC Fan Support

ASRock fan headers automatically detect whether fans are running in DC or PWM mode, allowing

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users to fine-tune the fan curve and achieve quieter operation.

Fan-Tastic Tuning

ASRock A-Tuning Fan-Tastic Tuning function enables users to auto-detect the minimum duty of each fan with a single click. Users can also easily adjust the fan curve via the visualized UI interface, meeting their system's cooling performance and noise reduction requirements.

Connectivity

Wi-Fi 6E 802.11ax

WiFi 6E technology has extended to the whole new 6GHz spectrum band, providing more WiFi capability and giving an even better and faster internet traffic. In addition to deliver higher speeds, the WiFi 6E also enhances the lower latency and supports service levels that are equivalent to 5G networks.

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.

Nahimic Audio

Whether you are using headphones, a headset, external or internal speakers, via USB, Wi-Fi, analog output or even HDMI, Nahimic Audio offers you the most engaging listening experience, vibrant and rich with details.

The Powerful algorithms to ensure the best noise-free conversation, giving a constant vocal level no matter the distance from your mic. The Nahimic audio engine dynamically clear the sound and remove interference noise and lower the voice variation. Result is a better comprehension and less fatigue.

- Static Noise Suppression
- Echo Cancellation
- Lateral Sound Cancellation

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- Voice Stabilizer

- Sound Tracker

The Sound Tracker is a visual indicator that points out the directions from which predominant sounds are coming. Each sound is properly positioned in 360° on a radar for a full immersion during the game.

- Works on any devices!

Enjoy the vibrant and high-quality Surround Sound on all your favorite audio devices. Nahimic is compatible with all of your favorite audio tools and ensures the best sound with any of them. Nahimic measure and improve to optimize our technology and offer you the best experience.

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.

DIY Friendly

Dual Graphics Outputs

Complete with two types of most used connectors! Packed with a HDMI + DisplayPort combo, you have more graphics output options now.

Reinforced Steel Slot [PCIe 5.0 Version]

The reinforced steel slot is capable of supporting PCI Express 5.0 standard. The various benefits include:

- Extra anchor points

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- Stronger latch
- Ensure signal stability
- Make sure heavy graphics cards to be well-installed.

EZ Setting

No need to worry about lack of disk drive! Asrock preinstall LAN driver to ensure that you are able to install all drivers needed in an easier way than using SCD.

Get the most convenient BIOS flashing with just a simple click. Users can easily achieve the latest BIOS support with a USB and a power supply. No CPU, RAM or other components are required.

ASRock strives offer only the cutting edge technology with the most user-friendly design. The pre-installed IO Shield design makes motherboard to be well-installed in the chassis precisely for preventing any interferences and speed up the set-up process.

- Supports AMD Socket AM5 Ryzen™ 9000, 8000 and 7000 Series Processors
- 8+2+1 Phase Power Design, Dr.MOS for VCore+SOC+MISC
- 4 x DDR5 DIMMs, Supports Dual Channel, up to 8000+ (OC)
- 1 PCIe 5.0 x16, 1 PCIe 4.0 x4
- Graphics Output Options: 1 HDMI, 1 DisplayPort
- Realtek ALC897 7.1 CH HD Audio Codec, Nahimic Audio
- 1 Blazing M.2 (PCIe Gen5x4), 2 Hyper M.2 (PCIe Gen4x4), 4 SATA3
- 1 USB 3.2 Gen2 Type-C (Rear), 1 USB 3.2 Gen2 Type-A (Rear), 1 USB 3.2 Gen1 Type-C (Front), 6 USB 3.2 Gen1 (2 Rear, 4 Front), 8 USB 2.0 (4 Rear, 4 Front)
- Realtek 2.5G LAN
- 802.11axe WiFi 6E +Bluetooth

Summary: Asrock B850M Pro RS 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: PCI Express 4.0, PCI Express 5.0, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 10. Maximum resolution: 3840 x 2160 pixels. USB connector type: USB Type-A, USB Type-C | Vendor Homepage:

<https://www.asrock.com/MB/AMD/B850M%20Pro%20RS%20WiFi/index.asp> | Audio chip: Realtek

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ALC897 | Audio output channels: 7.1 | Certification: FCC, CE, ErP/EuP ready | Component for: PC | Motherboard chipset: AMD B850 | Motherboard chipset family: AMD | Motherboard form factor: micro ATX | Product colour: Black | Windows operating systems supported: Windows 10 x64/Windows 11 x64 | Compatible processor series: AMD Ryzen 7000 Series/AMD Ryzen 8000 Series/AMD Ryzen 9000 Series | Processor manufacturer: AMD | Processor socket: Socket AM5 | Supported processor sockets: Socket AM5 | ECC compatibility: ECC & Non-ECC | Maximum internal memory: 256 | Memory channels: Dual-channel | Memory slots type: DIMM | Number of memory slots: 4 | Supported memory types: DDR5-SDRAM | Unbuffered memory: Yes | Number of storage drives supported: 7 | RAID levels: 0/1/10 | RAID support: Yes | Supported storage drive interfaces: PCI Express 4.0, PCI Express 5.0, SATA III | Supported storage drive types: HDD & SSD | HDCP: Yes | Maximum resolution: 3840 x 2160 | Parallel processing technology support: Not supported | 12V power connector: Yes | ATX Power connector (24-pin): Yes | CPU fan connector: Yes | EPS power connector (8-pin): Yes | Front panel audio connector: Yes | Number of chassis fan connectors: 3 | Number of CPU fan connectors: 2 | Number of EPS power connectors (8-pin): 1 | Number of RGB LED pin headers: 1 | Number of SATA III connectors: 4 | RGB LED pin header: Yes | TPM connector: Yes | USB 2.0 connectors: 2 | USB 3.2 Gen 1 (3.1 Gen 1) connectors: 3 | DisplayPort version: 1.4 | DisplayPorts quantity: 1 | Ethernet LAN (RJ-45) ports: 1 | HDMI ports quantity: 1 | HDMI version: 2.1 | Headphone outputs: 3 | Line-in: Yes | Microphone in: Yes | USB 2.0 ports quantity: 4 | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity: 2 | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity: 1 | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity: 1 | USB connector type: USB Type-A/USB Type-C | WiFi-AP antenna jack: 2 | Bluetooth: Yes | Bluetooth version: 5.2 | Ethernet interface type: 2.5 Gigabit Ethernet | Ethernet LAN: Yes | LAN controller: Dragon RTL8125BG | Top Wi-Fi standard: Wi-Fi 6E (802.11ax) | Wi-Fi: Yes | 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 6E (802.11ax) | 1st M.2 highest PCI Express generation: 5.0 | 1st M.2 largest key size: 2280 | 2nd M.2 highest PCI Express generation: 4.0 | 2nd M.2 largest key size: 2280 | 3rd M.2 highest PCI Express generation: 4.0 | 3rd M.2 largest key size: 2280 | Number of M.2 (M) slots: 3 | PCI Express x16 (Gen 5.x) slots: 1 | PCI Express x4 (Gen 4.x) slots: 1 | BIOS memory size: 256 | BIOS type: UEFI AMI | Depth: 244 | Width: 244 | Antenna included: Yes | Cables included: SATA | Product Net Weight: 0.8 | Shipping Box Height: 33.5 | Unit Calculated Volume: 0.005896 | Unit Calculated Weight: 1.395 | Units per Shipping Box: 10 | Model: B850M Pro RS WiFi

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