

Mainboard ASROCK AMD B850 SAM5 ATX Memory DDR5 Memory slots 4 1xPCI-Express 4



1-Expre

Mainboard ASROCK AMD B850 SAM5 ATX Memory DDR5 Memory slots 4 1xPCI-Express 4.0 16x 1xPCI- Express 5.0 16x 1xM.2 1xHDMI 1xAudio-In 1xAudio-Out 1xMicrophone 6xUSB 2.0 4xUSB 3.2 2xUSB-C 1xRJ45 B850PRORSWIFI

Model: B850 PRO RS WIFI

Manufacturer: ASROCK

EAN: 4711581490178

Product Code: 725781

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R4,028

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

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.

14+2+1 Power Phase Design

Featuring sturdy components and completely smooth power delivery to the CPU. Plus, it offers unmatched overclocking capabilities and enhanced performance with the lowest temperature for advanced gamers as well.

8 Layer PCB

The 8 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

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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

M.2 Bottom Heatsink

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.

Enlarged M.2 Heatsink

XXL M.2 Heatsink

The extra large aluminum alloy M.2 heatsink effectively improves heat dissipation to keep those high speed M.2 SSDs as cool as possible, it is able to give better stability while maintaining top performance.

Anti-Drop Screw

Tired of dropping screws or screws missing inside chassis?

The enhanced M.2 heatsink with anti-drop screw design that make sure installation process more easily.

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.

- ① CPU Fan Connector
- ② AIO Pump Fan Connector
- ③ Chassis Fan Connectors

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.

Wi-Fi 6E 802.11axe

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.

Abundant USB

Front Panel USB 3.2 Gen2x2 Type-C Header

The latest USB 3.2 Gen2x2 Type-C delivers up to 20 Gbps data transfer rate which is 2x as fast as previous generation, providing a blazing fast data transfer interface with reversible USB Type-C design that fits the connector either way.

USB Type-C (DP-alt Mode)

USB Alternate Mode allows USB Type-C ports to provide power, transfer data, and output display signals to DisplayPort monitors through a single cable.

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Nahimic Audio

Audio That Matters

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.

Enhance Communication Quality

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
- Voice Stabilizer

Ultimate Gaming Experience

- 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

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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.

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

EZ Setting

Auto Driver Installer

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.

step1 : Install Auto Driver Installer

step2 : Update drivers needed

step3 : Done!

BIOS Flashback

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.

Flexible Integrated I/O Shield

Unlike most so called pre-mounted I/O shield that is only decorated with fancy color schemes. We reserve more tolerance space and allow IO shield is adjustable when installing, thus fitting chassis perfectly without any mechanical issue.

- Supports AMD Socket AM5 Ryzen™ 9000, 8000 and 7000 Series Processors
- 14+2+1 Phase Power Design, 80A Dr.MOS for VCore+SOC+MISC

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- 4 x DDR5 DIMMs
- Supports Dual Channel, up to 8000+ (OC)
- 1 PCIe 5.0 x16, 1 PCIe 4.0 x16
- Graphics Output Options: 1 HDMI, 1 USB Type-C (DP-alt)
- Realtek ALC897 7.1 CH HD Audio Codec, Nahimic Audio
- 1 Blazing M.2 (PCIe Gen5x4)
- 2 Hyper M.2 (PCIe Gen4x4)
- 1 Ultra M.2 (PCIe Gen3x4)
- 4 SATA3
- 1 USB 3.2 Gen2x2 Type-C (Front)
- 1 USB 3.2 Gen2 Type-C (Rear)
- 1 USB 3.2 Gen1 Type-C (Rear)
- 8 USB 3.2 Gen1 (4 Rear, 4 Front)
- 10 USB 2.0 (6 Rear, 4 Front)
- Realtek 2.5G LAN
- 802.11axe WiFi 6E +Bluetooth
- Supports M.2 Bottom Heatsink, BIOS Flashback

Summary: Asrock B850 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: 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 6E (802.11ax). Component for: PC, Motherboard form factor: ATX, Motherboard chipset family: AMD | Vendor Homepage:

<https://www.asrock.com/mb/AMD/B850%20Pro%20RS%20WiFi/index.asp#Overview> | Audio chip: Realtek ALC897 | Audio output channels: 7.1 | Component for: PC | Motherboard chipset: AMD B850 | Motherboard chipset family: AMD | Motherboard form factor: ATX | 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 | ECC compatibility: ECC | Maximum internal memory: 256 | Memory channels: Dual-channel | Memory slots type: DIMM | Number of memory slots: 4 | Supported memory types: DDR5-SDRAM | RAID levels: 0/1/10 | RAID support: Yes | Supported storage drive interfaces: M.2,SATA III | ATX Power connector (24-pin): Yes | CPU fan connector: Yes | EPS power connector (8-

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pin): Yes | Front panel audio connector: Yes | Number of chassis fan connectors: 4 | Number of CPU fan connectors: 2 | Number of EPS power connectors (8-pin): 2 | 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: 2 | USB 3.2 Gen 2x2 connectors: 1 | Ethernet LAN (RJ-45) ports: 1 | HDMI ports quantity: 1 | Line-in: Yes | Microphone in: Yes | USB 2.0 ports quantity: 6 | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity: 4 | USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity: 1 | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity: 1 | 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) | Number of M.2 (M) slots: 1 | PCI Express x16 (Gen 4.x) slots: 1 | PCI Express x16 (Gen 5.x) slots: 1 | BIOS memory size: 256 | BIOS type: UEFI AMI | Depth: 244 | Width: 305 | Cables included: SATA | Product Net Weight: 1.4 | Shipping Box Height: 30.5 | Unit Calculated Volume: 0.008784 | Unit Calculated Weight: 2.19 | Units per Shipping Box: 5 | Model: B850 Pro RS WiFi

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