



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
1xUSB-C 1xRJ45
B850PRO-AWIFI

Model: B850 PRO-A WIFI

Manufacturer: ASROCK

EAN: 4711581490192

Product Code: 725786

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R3,892

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

Performance

Optimized VRM Design

VRM Design

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.

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.

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

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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.

Cooling

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 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.

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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.

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 enable both data transfer and display output to DisplayPort monitors through a single cable.

Stylish Design

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

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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

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.

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.

- Supports AMD Socket AM5 Ryzen™ 9000, 8000 and 7000 Series Processors
- 14+2+1 Phase Power Design, 80A 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 x16
- Graphics Output Options: 1 HDMI, 1 USB Type-C (DP-alt)
- Realtek ALC897 7.1 CH HD Audio Codec
- 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), 6 USB 3.2 Gen1 (4 Rear, 2 Front), 9 USB 2.0 (6 Rear, 3 Front)
- Realtek 2.5G LAN

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Summary: Asrock B850 Pro-A 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/B850%20Pro-A%20WiFi/index.asp> | Audio chip: Realtek ALC897 | Audio output channels: 7.1 | Certification: FCC, CE, ErP/EuP | Component for: PC | Motherboard chipset: AMD B850 | Motherboard chipset family: AMD | Motherboard form factor: 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: 8 | 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: 4 | Number of CPU fan connectors: 2 | Number of EPS power connectors (8-pin): 2 | Number of RGB LED pin headers: 1 | Number of SATA III connectors: 4 | Number of water pump connectors: 1 | RGB LED pin header: Yes | TPM connector: Yes | USB 2.0 connectors: 2 | USB 3.2 Gen 1 (3.1 Gen 1) connectors: 1 | USB 3.2 Gen 2x2 connectors: 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: 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 | 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 | 4th M.2 highest PCI Express generation: 4.0 | 4th

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M.2 largest key size: 2280 | Number of M.2 (M) slots: 4 | 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 | Antenna included: Yes | Cables included: SATA | Product Net Weight: 1.4 | Shipping Box Height: 30.5 | Unit Calculated Volume: 0.008784 | Unit Calculated Weight: 2.01 | Units per Shipping Box: 5 | Model: B850 Pro-A WiFi

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