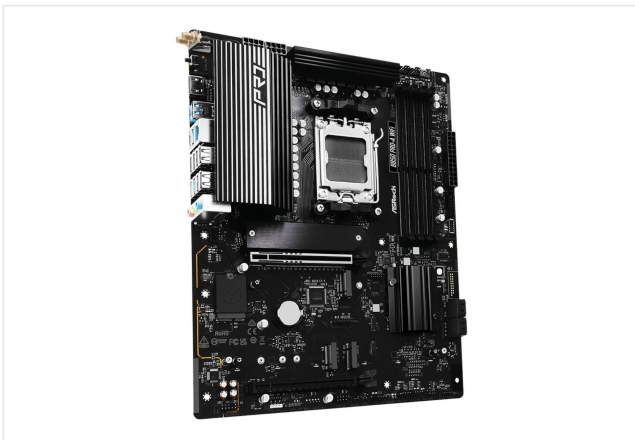


B850 PRO-A WIFI

ASRock B850 Pro-A Wi-Fi AMD Ryzen 7000 / 8000 / 9000 series Socket AM5 ATX motherboard

Product Overview

Asrock B850 Pro-A Wi-Fi AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 ATX Motherboard, AMD B850 Chipset, 4x DDR5 DIMM Memory slots, 1x HDMI 2.1, 1x USB 3.2 Gen1 Type-C supports DisplayPort 1.4 HBR3, 7.1 ch HD Audio, 2.5 Gigabit LAN, Wi-Fi 6E, Bluetooth 5.2, 1x PCI-e 5.0 x16 slot supports x16 mode, 1x PCI-e 4.0 x16 slot supports x4 mode, 1x M.2 Socket, 2x M.2 Socket supports up to PCI-e Gen5 x4, 2x SATA3 6.0 Gb/s connectors, USB 3.2 Gen2 Type-C, USB 3.2 Gen1 Type-C, USB 3.2 Gen1 Type-A, USB 3.2 Gen2x2 Type-C, USB 2.0, 1x BIOS FlashBack Button





Specifications

About this product

The ASRock B850 Pro-A Wi-Fi ATX motherboard is engineered for AMD Ryzen 7000, 8000, and 9000 Series processors, offering DDR5 memory, PCIe 5.0 graphics, Wi-Fi 6E, Bluetooth 5.2, and 2.5G LAN for high-speed performance. Shop now to upgrade your gaming or professional PC with future-ready technology and reliable connectivity.

Overview Summary:

Experience next-generation performance with the ASRock B850 Pro-A Wi-Fi ATX motherboard, built for AMD Ryzen 9000, 8000, and 7000 Series processors. Featuring DDR5 memory support, PCIe 5.0 graphics, Wi-Fi 6E, and 2.5G LAN, this motherboard delivers lightning-fast speed and exceptional stability for gaming, content creation, and professional use. Its advanced cooling, robust power delivery, and versatile connectivity make it ideal for high-performance PC builds. Shop now to upgrade your rig with cutting-edge technology and future-ready architecture.

Performance tier:High-end

Uses:Gaming PCs, video editing, 3D rendering, streaming setups, professional workstations

Overview:

ASRock B850 Pro-A Wi-Fi ATX Motherboard for AMD Ryzen 9000 / 8000 / 7000 Series

Experience cutting-edge performance and seamless connectivity with the ASRock B850 Pro-A Wi-Fi ATX motherboard. Designed to maximize the power of AMD Ryzen processors, this board delivers reliability, speed, and expandability for gamers, creators, and PC enthusiasts alike.

Description:

The ASRock B850 Pro-A Wi-Fi motherboard combines the latest AMD B850 chipset with DDR5 memory support and PCIe 5.0 technology, ensuring next-generation speed and performance. With built-in Wi-Fi 6E, Bluetooth 5.2, 2.5G LAN, and multiple M.2 slots, it provides smooth connectivity and blazing-fast data transfer. Whether you're building a high-end gaming PC or a professional workstation, this motherboard offers the flexibility and future-ready architecture to handle it all.

Features:

Key Highlights

- Supports AMD Ryzen 9000, 8000, and 7000 Series processors

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Product Specification Sheet

- Up to 256GB DDR5 memory for advanced multitasking
- PCIe 5.0 x16 slot for top-tier GPU performance
- Dual-band Wi-Fi 6E and Bluetooth 5.2 for modern wireless connectivity
- HDMI 2.1 and USB Type-C ports for flexible display options
- Reliable ATX design with superior cooling and power delivery

Optimized for Ryzen Power

Unlock the potential of AMD's latest processors with the B850 chipset. Designed for gamers and professionals, it ensures stability, responsiveness, and overclocking capabilities to push your system further. With a 14+2+1 phase power design and 80A Dr.MOS, this board maintains peak efficiency under heavy workloads.

High-Speed Memory and Storage Support

Equipped with four DDR5 DIMM slots, the ASRock B850 Pro-A Wi-Fi supports up to 256GB of ultra-fast memory. Enjoy support for DDR5 ECC/non-ECC modules, EXPO, and XMP profiles for simple overclocking.

Storage flexibility includes:

- 1 x PCIe Gen5x4 M.2 slot
 - 2 x PCIe Gen4x4 M.2 slots
 - 1 x PCIe Gen3x4 M.2 slot
 - 4 x SATA3 6.0 Gb/s connectors
- This combination ensures rapid boot times and maximum data throughput for gaming, rendering, and heavy multitasking.

Advanced Networking and Wireless Performance

Stay ahead with Realtek 2.5G LAN and Wi-Fi 6E technology. Whether you're gaming online, streaming in 4K, or transferring large files, the board provides ultra-low latency and reliable connections. Bluetooth 5.2 further enhances device compatibility for headsets, controllers, and peripherals.

Superior Audio and Visual Connectivity

Delivering immersive sound, the Realtek ALC897 7.1-channel HD Audio Codec enhances your gaming and entertainment experience. The HDMI 2.1 port supports 4K at 120Hz, while the USB Type-C DisplayPort (DP-alt mode) allows for versatile display configurations.

Comprehensive I/O and Expansion Options

Designed for maximum flexibility, the ASRock B850 Pro-A Wi-Fi includes:

- PCIe 5.0 x16 and PCIe 4.0 x16 slots
 - Multiple USB 3.2 Gen2x2, Gen2, and Gen1 ports
 - USB Type-C support for both front and rear panels
 - BIOS Flashback button for effortless firmware updates
- This extensive connectivity supports future component upgrades and external devices with ease.

Cooling and Power Reliability

The motherboard's intelligent fan control system ensures efficient thermal performance, featuring:

- 2 CPU fan connectors
 - 4 chassis fan connectors
 - 1 AIO pump fan connector
- All with smart fan speed control and auto-detection for 3-pin or 4-pin configurations. Dual 8-pin 12V power connectors enhance CPU stability under extreme loads.

Software Suite and UEFI Support

Access intuitive system controls and customization through:

- ASRock A-Tuning Utility
- ASRock Polychrome SYNC for RGB control
- Dragon 2.5G LAN Software

- ASRock EZ Mode and Full HD UEFI InterfaceThese tools simplify performance tuning, driver installation, and system monitoring.

Build Quality and Form Factor

Built on an 8-layer PCB, this ATX motherboard ensures signal integrity and long-term durability. Its standard 12.0 x 9.6-inch layout offers wide compatibility with popular PC cases and cooling setups.

Included Accessories

- ASRock B850 Pro-A Wi-Fi AM5 ATX Motherboard (Black)
- I/O Shield
- 2 x SATA Data Cables
- 2 x ASRock Wi-Fi 2.4/5/6 GHz Antennas

Ideal For

- High-performance gaming PCs
- Content creation and video editing setups
- Custom-built workstations needing top-tier expandability

The ASRock B850 Pro-A Wi-Fi ATX motherboard is a solid choice for users seeking future-ready performance, robust connectivity, and reliable power management in one sleek, durable package.

FAQ

Can the ASRock B850 Pro-A Wi-Fi motherboard support the latest AMD Ryzen processors?

Yes, it is compatible with AMD Ryzen 7000, 8000, and 9000 Series processors, supporting high-performance desktop builds.

Does it include Wi-Fi and Bluetooth connectivity?

Yes, the motherboard comes with Wi-Fi 6E and Bluetooth 5.2 for fast and reliable wireless connections in South Africa.

How many memory slots and maximum RAM does it support?

It features 4 DDR5 DIMM slots and supports up to 256GB of system memory, including EXPO and XMP profiles for easy overclocking.

Is the motherboard suitable for gaming and content creation?

Absolutely. With PCIe 5.0 graphics support, high-speed storage options, and robust power delivery, it is ideal for gaming, video editing, 3D rendering, and professional workstations.

What ports are available for display and peripherals?

It includes HDMI 2.1, USB Type-C with DisplayPort support, multiple USB 3.2 Gen2/Gen1 ports, and legacy USB 2.0, providing flexible options for monitors and peripherals.

Specifications:

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Specifications	
Product Code	B850 PRO-A WIFI

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Product Specification Sheet

Unique Feature	Superb Productivity
	- PCIe Gen5 (Graphics, M.2)
	- Dual Channel DDR5
	Rock-Solid Durability
	- 14+2+1 Power Phase, 80A Dr.MOS for VCore+SOC+MISC
	Ultrafast Connectivity
	- 2.5G LAN, 802.11axe Wi-Fi 6E Module
	EZ Update
	- BIOS Flashback Button
	- ASRock Auto Driver Installer
	EZ Troubleshooter
	- ASRock Post Status Checker
CPU	- Supports AMD Socket AM5 Ryzen 9000, 8000 and 7000 Series Processors
	* The availability of expansion slots may vary by CPU. Please refer to PCIe/M.2 Bandwidth Table for details.
Chipset	- AMD B850
Memory	- Dual Channel DDR5 Memory Technology
	- 4 x DDR5 DIMM Slots
	- Supports DDR5 ECC/non-ECC, un-buffered memory up to 8000+(OC)
	- Max. capacity of system memory: 256GB
	- Supports Extreme Memory Profile (XMP) and EXTended Profiles for Overclocking (EXPO) memory modules
BIOS	- 256Mb AMI UEFI Legal BIOS with GUI support
Graphics	Integrated AMD RDNA graphics (Actual support may vary by CPU)
	- 1 x HDMI 2.1 TMDS/FRL 8G Compatible, supports HDR, HDCP 2.3 and max. resolution up to 4K 120Hz
	- 1 x USB 3.2 Gen1 Type-C, supports DP 1.4 HBR3 and max. resolution up to 4K 60Hz (DP-alt mode supports DP1.4a)
Audio	- 7.1 CH HD Audio (Realtek ALC897 Audio Codec)
LAN	- 2.5 Gigabit LAN 10/100/1000/2500 Mb/s
	- Dragon RTL8125BG
	- Supports Dragon 2.5G LAN Software
	- Smart Auto Adjust Bandwidth Control
	- Visual User Friendly UI
	- Visual Network Usage Statistics
	- Optimized Default Setting for Game, Browser, and Streaming Modes
	- User Customized Priority Control

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Product Specification Sheet

Wireless LAN	- 802.11axe Wi-Fi 6E Module
	- Supports IEEE 802.11a/b/g/n/ac/ax/axe
	- Supports Dual-Band 2x2 with extended 6GHz band* support
	- 2 antennas to support 2 (Transmit) x 2 (Receive) diversity technology
	- Supports Bluetooth 5.2
	- Supports MU-MIMO
	*Wi-Fi 6E (6GHz band) will be supported by Microsoft Windows 11. The availability will depend on the different regulation status of each country and region. It will be activated (for supported countries) through Windows Update and software updates once available.
	A 6GHz compatible router is required for 6E functionality.
Slots	CPU:
	- 1 x PCIe 5.0 x16 Slot (PCIE1), supports x16 mode
	Chipset:
	- 1 x PCIe 4.0 x16 Slot (PCIE2), supports x4 mode
	- 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module
	- 15u Gold Contact in VGA PCIe Slot (PCIE1)
	* PCIE1 will run at Gen5x16 with 9000 and 7000 series processors, Gen4x8 with 8000 (Phoenix 1) series processors and Gen4x4 with 8000 (Phoenix 2) series processors.
	If M2_3 is occupied, PCIE2 will be disabled.
Storage	Supports NVMe SSD as boot disks
	CPU:
	- 1 x Blazing M.2 Socket (M2_1, Key M), supports type 2280 PCIe Gen5x4 (128 Gb/s) mode
	- 1 x Hyper M.2 Socket (M2_2, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode
	Chipset:
	- 1 x Hyper M.2 Socket (M2_3, Key M), supports type 2230/2242/2260/2280 PCIe Gen4x4 (64 Gb/s) mode
	- 1 x Ultra M.2 Socket (M2_4, Key M), supports type 2280 PCIe Gen3x4 (32 Gb/s) mode
	- 2 x SATA3 6.0 Gb/s Connectors
	ASMedia ASM1061:
	- 2 x SATA3 6.0 Gb/s Connectors
	* Supports NVMe SSD as boot disks
	M2_1 is the first priority for M.2 installation.
	M2_1 will run at Gen5x4 with 9000 and 7000 series processors and Gen4x4 with 8000 (Phoenix 1 and Phoenix 2) series processors.
	M2_2 will run at Gen4x4 with 9000 and 7000 series processors, Gen4x4 with 8000 (Phoenix 1) series processors and Gen4x2 with 8000 (Phoenix 2) series processors.
	If M2_3 is occupied, PCIE2 will be disabled.
	If SATA3_1 or SATA3_2 is occupied, M2_4 will downgrade to Gen3x2 mode.

RAID	- Supports RAID 0 and RAID 1 for SATA storage devices
	- Supports RAID 0, RAID 1 and RAID 10 for M.2 NVMe storage devices
USB	CPU:
	- 1 x USB 3.2 Gen2 Type-C (Rear)
	- 1 x USB 3.2 Gen1 Type-C (Rear)
	- 2 x USB 3.2 Gen1 Type-A (Rear (USB32_1 and USB32_2))
	Chipset:
	- 1 x USB 3.2 Gen2x2 Type-C (Front)
	- 4 x USB 3.2 Gen1 Type-A (2 Rear (USB32_3 and USB32_4), 2 Front)
	- 9 x USB 2.0 (6 Rear, 3 Front)
	* All USB ports support ESD Protection
Connector	- 1 x SPI TPM Header
	- 1 x Power LED and Speaker Header
	- 1 x RGB LED Header
	- 3 x Addressable LED Headers
	- 2 x CPU Fan Connectors (4-pin) (Smart Fan Speed Control)
	- 4 x Chassis Fan Connectors (4-pin) (Smart Fan Speed Control)
	- 1 x AIO Pump Fan Connector (4-pin) (Smart Fan Speed Control)
	- 1 x 24 pin ATX Power Connector
	- 2 x 8 pin 12V Power Connectors (Hi-Density Power Connector)
	- 1 x Front Panel Audio Connector
	- 2 x USB 2.0 Headers (Support 3 USB 2.0 ports)
	- 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports)
	- 1 x Front Panel Type C USB 3.2 Gen2x2 Header (20 Gb/s)
	* Supports in total up to 12V/3A, 36W LED Strip
	** Support in total up to 5V/3A, 15W LED Strip
	*** CPU_FAN1 supports the fan power up to 1A (12W).
	CPU_FAN2, CHA_FAN1~4 and AIO_PUMP support the fan power up to 3A (36W).
	CPU_FAN2, CHA_FAN1~4 and AIO_PUMP can auto detect if 3-pin or 4-pin fan is in use.

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Rear Panel I/O	- 2 x Antenna Ports
	- 1 x HDMI Port
	- 1 x USB 3.2 Gen2 Type-C Port (10 Gb/s)
	- 1 x USB 3.2 Gen1 Type-C Port (DP-alt mode supports DP1.4a)
	- 4 x USB 3.2 Gen1 Type-A Ports
	- 6 x USB 2.0 Ports
	- 1 x RJ-45 LAN Port
	- 1 x BIOS Flashback Button
	- HD Audio Jacks: Line in / Front Speaker / Microphone
Software and UEFI	Software
	- ASRock Motherboard Utility (A-Tuning)
	- ASRock Dragon 2.5G LAN Software
	- ASRock Polychrome SYNC
	UEFI
	- ASRock EZ Mode
	- ASRock Full HD UEFI
	- ASRock Auto Driver Installer
	- ASRock Instant Flash
	*These utilities can be downloaded from ASRock Live Update & APP Shop.
Accessories	- 1 x I/O Shield
	- 2 x SATA Data Cables
	- 2 x ASRock WiFi 2.4/5/6 GHz Antennas
Form Factor	- ATX Form Factor: 12.0-in x 9.6-in, 30.5 cm x 24.4 cm
	- 8 Layer PCB
OS	- Microsoft Windows 10 64-bit / 11 64-bit
Certifications	- FCC, CE
	- ErP/EuP ready (ErP/EuP ready power supply is required)

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/B850-PRO-A-WIFI-ASRock-B850-Pro-A-Wi-Fi-AMD-Ryzen-7000-Buy-p-330039.php>

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