



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
8xUSB 2.0
9xUSB 3.2
3xUSB-C
1xOptical S/PDIF
1xRJ45
B850RIPTIDEWIFI

Modelis: B850 RIPTIDE WIFI

Gamintojas: ASROCK

EAN: 4711581490079

Prekės kodas: 79347

Pateikta prekės informacija yra orientacinio pobūdžio. Techninės savybės, nuotraukos, aprašymai ir kaina gali keistis be išankstinio perspėjimo. Gamintojas ir pardavėjas neatsako už galimus duomenų neatitikimus ar tipografines klaidas. Prieš įsigyjant rekomenduojame pasitikrinti aktualią informaciją.

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210.00€

FAST

MYSTERIOUS

UNBEATABLE

Phantom Gaming is designed by gamers and for gamers! Underneath its relentless appearance lie plentiful gaming oriented features and excellent gaming capabilities. It's all about bringing a new gaming experience to gamers!

Performance

Optimized VRM Design

Exclusive 20K Cap with 1000uF Capacitance

The upgraded 20K Black capacitor not only extends the lifespan to 20,000 hours but also increases the capacitance value from 560uF to 1000uF, bringing several benefits:

- Higher Capacitance: Greater charge storage for better support under high loads.
- Lower Ripple: Reduced power output fluctuations, improving quality.
- More Stable Output Current: Stable power supply, minimizing voltage impacts.
- Better Performance & System Stability: Increased reliability and consistent performance.

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.

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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

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

Graphics Card Lite Release

Equipped with an enlarged latch for easy pressing, simplifying both the installation and removal of graphics cards.

M.2 Heatsink Toolless Design

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Besides the M.2 SSD toolless design on the motherboard, ASRock up a notch by introducing this industry first M.2 heatsink quick release mechanism on the motherboard. The user friendly toolless design helps installing M.2 SSD super easy & simple.

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.

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.

Thermistor Header

The thermistor cable and thermistor header provide an additional source for temperature

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monitoring, offering customized thermal management solutions based on workload. Thermal management settings can be easily configured via Fan-Tastic Tuning or UEFI.

Fan-Tastic Tuning

ASRock Phantom Gaming 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 7

Wi-Fi 7 offers higher data throughput, lower latency, and Multi-link Operation. These features ensure a smooth and real-time interactive experience, making the VR/AR experience more immersive and connected.

Latest WiFi 7 technology delivers extreme wireless internet speeds and low latency, with higher throughput and Multi-RU as well as puncturing technology. The new WiFi 7(802.11be) technology is able to accelerate cloud-based gaming, 8K video streaming, and video conferencing.

Multi-link Operation (MLO) enables the simultaneous use of multiple bands and channels, boosting speed and throughput while reducing latency for a smoother, faster internet experience.

Killer Networking

Killer™ Ethernet E3100

The Killer E3100 2.5 Gbps Ethernet controller is designed specially for competitive gamers and performance-hungry users. The enhanced detection and prioritization engine provides the ultimate networking experience for gaming and multimedia applications.

Killer GAMEFAST Technology

- **Faster Gameplay** : Killer GameFast Technology can free up to 10% of your CPU cycles and 20% of your memory to allow the user to enjoy a smooth gaming experience.
- **Easy to Use** : It is extremely easy to use. Just simply turning on the Killer GameFast enabled on the computer will do the work. You don't have to lift even a finger after that if you don't want to.

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- Fully Customizable : All the settings are customizable according to the user's preference. The one thing that we can change as per the user is 'adding or removing processes to be stopped'.

Killer Prioritization Engine

- Lag Less, Win More : The Intel® Killer™ Prioritization Engine ensures you get your lowest in-game latencies by prioritizing your gaming traffic above everything else.
- Less Buffering : Automatically detect, classify, and prioritize network traffic for streaming videos and entertainment to give you the best possible online experience.
- Custom Control : The Intel® Killer™ Prioritization Engine works automatically, and the Intel® Killer™ Intelligence Center allows you to customize and prioritize your network traffic to your liking.

More than USB Transfer Speed

Lightning Gaming Ports

Aimed for die hard gamers and enthusiasts! Lightning Gaming Ports are sourced from two different controller interfaces that assist gamers in connecting the high speed mice/keyboard with the lower jitter and latency!

Ultra USB Power

Provides stable power and better sound experience! Ultra USB Power provides 5V power transformed from +12V power rail, whose voltage drop will be much lower than the +5V from the PSU under heavy loading, and prevents noise from other devices or RGB LED.

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.

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.

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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.

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 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.

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DIY Friendly

Deluxe Accessories

ARGB Splitter Cable

The ARGB Splitter Cable enables easy management of multiple ARGB devices through a single controller. With its splitting capability, it streamlines your lighting setup for a unified and dynamic aesthetic.

Customized Thermal Management

The thermistor cable and thermistor header provide an additional source for temperature monitoring, offering customized thermal management solutions.

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.

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
- 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
- Realtek ALC4082 7.1 CH HD Audio Codec, Nahimic Audio
- 1 Blazing M.2 (PCIe Gen5x4), 3 Hyper M.2 (PCIe Gen4x4), 4 SATA3

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- 1 USB 3.2 Gen2x2 Type-C (Front), 4 USB 3.2 Gen2 (2 Rear, 2 Rear Type-C), 7 USB 3.2 Gen1 (3 Rear, 4 Front), 8 USB 2.0 (4 Rear, 4 Front)
- Killer 2.5G LAN
- 802.11be Wi-Fi 7 + Bluetooth

Summary: Asrock Phantom Gaming B850 Riptide 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://pg.asrock.com/mb/AMD/B850%20Riptide%20WiFi/index.asp> | Audio chip: Realtek ALC4082 | 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: 3 | 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: 2 | USB 3.2 Gen 2x2 connectors: 1 | Ethernet LAN (RJ-45) ports: 1 | HDMI ports quantity: 1 | HDMI version: 2.1 | Headphone outputs: 2 | Line-in: Yes | Microphone in: Yes | S/PDIF out port: Yes | USB 2.0 ports quantity: 4 | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity: 3 | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity: 2 | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity: 2 | USB connector type: USB Type-A/USB Type-C | WiFi-AP antenna jack: 2 | Bluetooth: Yes | Bluetooth version: 5.4 | Ethernet interface type: 2.5 Gigabit Ethernet | Ethernet LAN: Yes | LAN controller: Killer E3100G | Top Wi-Fi standard: Wi-Fi 7 (802.11be) |

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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)/Wi-Fi 7 (802.11be) | 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 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 | Model: B850 Riptide WiFi | Units per Shipping Box: 5 | Unit Calculated Volume: 0.008784 | Unit Calculated Weight: 2.32

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