



Mainboard ASUS AMD B850 SAM5

ATX Memory

DDR5 Memory

slots 4 2xPCI-

Express 4.0 1x

1xPCI-Express

4.0 16x 1xPCI-

Express 5.0 16x

3xM.2 1xHDMI

1xDisplayPort

2xUSB 2.0

4xUSB 3.1

3xUSB 3.2

1xUSB-C 1xRJ45

5xAudio port

**TUFGAMINGB850-
PLUSWIFI**

Modelis: TUF GAMING B850-PLUS WIFI

Gamintojas: ASUS

EAN: 4711387781609

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 išsigyjant rekomenduojame pasitikrinti aktualią informaciją.

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196.00€

ASUS TUF GAMING B850-PLUS WIFI takes all the essential elements of the latest AMD Ryzen™ processors and combines them with game-ready features and proven durability. Engineered with military-grade components, an upgraded power solution and a comprehensive cooling system, this motherboard goes beyond expectations with rock-solid and stable performance for marathon gaming. TUF GAMING motherboards also undergo rigorous endurance testing to ensure that they can handle conditions where others may fail. This platform delivers the power and connectivity that advanced AI PC applications demand.

Intelligent

Intelligent Control

AI Advisor

ASUS AI Advisor is an ASUS technical expert that's always available to answer your questions. Owners of compatible ASUS motherboards can interact with this AI-powered technology using natural language to learn more about their hardware. For DIY beginners, it can provide easy-to-understand explanations of one-click optimization features like AI Overclocking and fan speed tuning, and for seasoned PC-building veterans, it can offer guidance and instructions on the latest features offered by ASUS.

* Availability of ASUS AI Advisor may vary by region.

**AI Advisor functions may vary by platform.

UEFI BIOS

The UEFI interface delivers easy-to-use configuration options for PC beginners, and advanced features for veterans.

ASUS DriverHub

Simplify driver management with automatic detection, one-click installation and update for smooth, efficient system performance.

ASUS GlideX

Enable seamless screen sharing and control across PCs, tablets, and smartphones via USB or WiFi, supporting multiple platforms.

Power Saving

Leverage all-around energy efficiency settings to optimize power consumption.

Armoury Crate

Customize Aura Sync RGB and control ASUS devices. Includes product registration and updates.

Performance

Premium Power Design

Stable power is crucial for maximizing the performance of AMD processors. The motherboard is designed to meet the needs of high-core-count CPUs. It features 14(80A) + 2(80A) + 1(80A) power stages that integrate high-side and low-side MOSFETs and drivers into packages rated for up to 80A each. This configuration ensures optimal power delivery, efficiency, stability and performance for both current and future AMD processors.

Performance

Memory & Storage

DRAM Overclocking Performance

Comprehensive memory tuning options are the cornerstone of TUF GAMING motherboards. With the motherboard, you can extract all the potential out of your DDR5 modules*, whether they're from an extreme-speed kit or an entry-level set that would otherwise be locked.

* Memory overclocking may vary between CPU series. Please refer to the spec table for detailed information.

DDR5 DOMINANCE

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For those who want to fly past stock DDR5 speeds, this motherboard is primed and ready for enthusiast-grade kits, courtesy of vast AMD Extended Profiles for Overclocking (EXPO™) support. Seasoned veterans can further tweak performance via an extensive array of settings in the UEFI.

ASUS AEMP

ASUS Enhanced Memory Profile (AEMP) is an exclusive firmware feature for PMIC-restricted memory modules. AEMP automatically detects the memory chips on your kit and then presents optimized frequency, timing and voltage profiles that you can quickly apply.

M.2 PCIe 5.0 Support

This motherboard also features one PCIe 5.0 M.2 slot to enjoy the fastest data transfers of up to 128 Gbps*, and all M.2 slots support NVMe RAID configurations to take advantage of the latest available speeds.

Cooling

Cooler Compatibility

ASUS AIO coolers offer robust performance, high overclocking potential, bold aesthetics and customizable functionality for new TUF Gaming motherboards, empowering you to build your dream gaming rig.

Connectivity

Empowering Connection

This motherboard offers a versatile range of connectivity with PCIe 5.0, rear USB 20Gbps Type-C® port, front USB 10Gbps Type-C® connector and Thunderbolt™ (USB4®) header support.

PCIe 5.0 for Graphics Card

PCIe 5.0 offers twice the data transfer speed of PCIe 4.0, making it robust enough to handle new data-heavy tasks. PCIe 5.0 also brings other benefits, such as electrical changes to improve signal integrity, backward-compatible CEM connectors for add-in cards and backward compatibility with previous versions of the PCIe bus.

Rear USB 20Gbps Type-C®

Extensive USB support ensures connections to a wide array of external devices. This motherboard

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includes a USB 20Gbps Type-C® port on the rear I/O panel that delivers transfer speeds of up to 20Gbps.

Front USB 10Gbps Type-C®

This motherboard features a USB 10Gbps Type-C® front panel connector for speedy data transfers of up to 10Gbps.

DIY

Easy PC DIY

PCIe Slot Q-Release

A physical lever unlocks the first PCIe slot's security latch with one tap, greatly simplifying the process of detaching a PCIe card from the motherboard when it's time to upgrade to a new GPU or other compatible device.

Q-Antenna

With Q-Antenna, attaching a WiFi antenna to your PC is now easy and fast. Instead of slowly rotating two fasteners until they finally lock in, they just snap into place. Less hassle, and more consistent performance.

M.2 Q-Latch

The innovative ASUS Q-Latch makes it easy to install or remove an M.2 SSD without the need for specific tools or screws. This design employs a simple locking mechanism to secure the drive and neatly detach it with one tap.

Q-LED

The on-board Q-LED troubleshooting lights give PC builders a quick indicator to confirm that key components — CPU, RAM, graphics card, storage devices — are functioning normally during startup. It can also alert them when memory modules have not been properly installed—even before booting.

BIOS FlashBack™

BIOS FlashBack™ simplifies BIOS updates. Just load the BIOS file onto a FAT32 USB stick, insert it into the BIOS FlashBack™ port, and press a button—no CPU or memory needed.

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Pre-mounted I/O shield

Our pre-installed I/O shield safeguards ports, simplifies the build process, increases functionality and enhances aesthetics for PC DIY enthusiasts.

DIY

Protection

Build With Confidence

TUF GAMING Alliance is a collaboration between ASUS and trusted PC component brands to ensure compatibility across a wide range of parts, such as PC cases, power supplies, CPU coolers, memory kits and more. With new partnerships and components being added regularly, the TUF GAMING Alliance will continue to grow even stronger.

Gaming

Ultrafast Networking

Provide a feature-packed high-performance gaming package, with ultrafast networking for smoother online gameplay.

WiFi 7

WiFi 7 ensures stable connections and low latency.

2.5Gb Ethernet

On-board 2.5Gb Ethernet kicks your LAN connection up a notch by improving bandwidth speeds up to 2.5X faster than 1Gb connections.

Audio

Realtek 7.1 Channel Audio

ALC1220P

This motherboard utilizes an audio codec designed in close collaboration with Realtek — the Realtek ALC1220P. It features an unprecedented 120 dB signal-to-noise (SNR) ratio for the stereo line out and a 113 dB SNR for the line in, providing pristine audio quality. Additionally, an impedance-sensing circuit automatically adjusts gain to ensure an optimal volume range for your headphones.

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DTS Audio Processing

DTS® Audio Processing enhances gaming headset and speaker audio experiences by reducing distortion and by providing deeper bass, so games, movies and music sound better. It also allows you to customize audio settings.

Lighting

Outshine The Competition

ASUS Aura Sync offers synchronized lighting with other Aura Sync products, including motherboards, graphics cards, monitors and peripherals.

Addressable Gen2 RGB Headers

Automatically optimize lighting effects for the number of LEDs present in compatible ARGB gear.

In Search of Sustainable Solution

ASUS is on a mission to create a sustainable future where all can flourish on the planet we call home.

Every step counts, and as part of ASUS's commitment to creating a more sustainable future, ASUS has begun to utilize post-consumer recycled (PCR) plastic and paper materials certified by the Forest Stewardship Council (FSC™) in the packaging of motherboard.

Join us on our journey as we make the world a better place.

BUILD FOR THE MOST ADVANCED PC FOR GAMING AND CREATING

When only the fastest will do, TUF Gaming B850 motherboards deliver. With faster dual-channel DDR5 memory support, AMD EXPO™ technology and PCIe® 5.0 support for both graphics and NVMe, you can play the most demanding games and deliver your biggest projects with the revolutionary performance of an TUF Gaming B850 motherboard and AMD Ryzen™ 9000, 8000, and 7000 Series processors.

1. Overclocking and/or undervolting AMD processors and memory, including without limitation, altering clock frequencies / multipliers or memory timing / voltage, to operate outside of AMD's published specifications will void any applicable AMD product warranty, even when enabled via AMD hardware and/or software. This may also void warranties offered by the system manufacturer or

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retailer. Users assume all risks and liabilities that may arise out of overclocking and/or undervolting AMD processors, including, without limitation, failure of or damage to hardware, reduced system performance and/or data loss, corruption or vulnerability. GD-106.

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Summary: ASUS TUF GAMING B850-PLUS 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: 192 GB, Memory slots type: DIMM. Supported storage drive interfaces: M.2, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 5, 10. Maximum resolution: 7680 x 4320 pixels. Ethernet interface type: 2.5 Gigabit Ethernet, Top Wi-Fi standard: Wi-Fi 7 (802.11be), Wi-Fi standards: Wi-Fi 7 (802.11be) | Vendor Homepage: <https://www.asus.com/motherboards-components/motherboards/tuf-gaming/tuf-gaming-b850-plus-wifi/> | Audio chip: Realtek ALC1220 | Audio output channels: 7.1 | Component for: PC | Motherboard chipset: AMD B850 | Motherboard chipset family: AMD | Motherboard form factor: ATX | Power source type: ATX | Product colour: Black | Windows operating systems supported: Windows 11 | 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: 192 | Memory channels: Dual-channel | Memory slots type: DIMM | Number of memory slots: 4 | Supported memory clock speed (max): 8000 | Supported memory types: DDR5-SDRAM | Unbuffered memory: Yes | Number of HDDs supported: 4 | Number of storage drives supported: 7 | RAID levels: 0/1/10/5 | RAID support: Yes | Supported storage drive interfaces: M.2,SATA III | Supported storage drive types: HDD & SSD | Maximum resolution: 7680 x 4320 | On-board graphics card: No | Parallel processing technology support: Not supported | ATX Power connector (24-pin): Yes | Chassis intrusion connector: Yes | CPU fan connector: Yes | EPS power connector (8-pin): Yes | Front panel audio connector: Yes | Front panel connector: Yes | Number of chassis fan connectors: 4 | Number of COM connectors: 1 | Number of CPU fan connectors: 2 | Number of EPS power connectors (8-pin): 2 | Number of RGB LED pin headers: 3 | Number of SATA III connectors: 4 | Number of water pump connectors: 1 | RGB LED pin header: Yes | Thunderbolt headers: 1 | USB 2.0 connectors: 2 | USB 3.2 Gen 1 (3.1 Gen 1) connectors: 1 | USB 3.2 Gen 2 (3.1 Gen 2) connectors: 1 | DisplayPort version: 1.4 | DisplayPorts quantity: 1 | Ethernet LAN

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(RJ-45) ports: 1 | HDMI ports quantity: 1 | HDMI version: 2.1 | Headphone outputs: 1 | Line-in: Yes | Microphone in: Yes | USB 2.0 ports quantity: 2 | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity: 4 | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity: 3 | USB 3.2 Gen 2x2 Type-C ports quantity: 1 | WiFi-AP antenna jack: 2 | Bluetooth: Yes | Bluetooth version: 5.4 | Ethernet interface type: 2.5 Gigabit Ethernet | Ethernet LAN: Yes | Top Wi-Fi standard: Wi-Fi 7 (802.11be) | Wi-Fi: Yes | Wi-Fi standards: 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: 22110 | 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 x1 (Gen 4.x) slots: 2 | PCI Express x16 (Gen 4.x) slots: 1 | PCI Express x16 (Gen 5.x) slots: 1 | BIOS memory size: 256 | BIOS type: UEFI AMI | Clear CMOS button: Yes | Package depth: 273 | Package height: 68 | Package weight: 1810 | Package width: 353 | Depth: 244 | Width: 305 | Antenna included: Yes | Cables included: SATA | Quick installation guide: Yes | Weight: 1320 | Model: TUF GAMING B850-PLUS WIFI | Units per Shipping Box: 4 | Unit Calculated Volume: 0.008131 | Unit Calculated Weight: 2.11

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