ASUS TUF GAMING B850-PLUS WIFI AMD B850 Socket AM5 ATX

Gamintojas: **ASUS** · Modelis: **TUF GAMING B850-PLUS WIFI** · EAN: **4711387781609** · Prekės kodas: **469185**

220,90 €

Kaina su PVM

Be PVM: **182,56 €**

Sandėlyje

Prekė internetu

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Pagrindinės savybės

- ✓ AMD Socket AM5 AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series
- ✓ PC ATX AMD B850 Realtek ALC1220 7.1 channels
- ✓ DDR5-SDRAM 4 DIMM Maximum internal memory: 192 GB
- ✓ HDD & SSD M.2, SATA III RAID support Number of storage drives supported: 7
- ✓ BIOS type: UEFI AMI 256 Mbit Clear CMOS button
- ✓ 2.5 Gigabit Ethernet Wi-Fi Wi-Fi 7 (802.11be) Bluetooth 5.4

Aprašymas

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

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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
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 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.

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.

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.

Techninė specifikacija

Specifications	
Sandėlio grupė	Root/Electronics/PC parts/Motherboards [+0][-461]
Processor	
Processor manufacturer	AMD

Processor socket	Socket AM5
Compatible processor series	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series
Supported processor sockets	Socket AM5

Memory

Supported memory types	DDR5-SDRAM
Number of memory slots	4
Maximum internal memory	192 GB
Memory slots type	DIMM
Memory channels	Dual-channel
ECC compatibility	ECC & Non-ECC
Supported memory clock speed (max)	8000 MHz
Unbuffered memory	Yes

Storage controllers

Supported storage drive interfaces	M.2, SATA III
Supported storage drive types	HDD & SSD
Number of HDDs supported	4
Number of storage drives supported	7
RAID support	Yes
RAID levels	0, 1, 5, 10

Graphics

Parallel processing technology support	Not supported
On-board graphics card	No
Maximum resolution	7680 x 4320 pixels

Internal I/O

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
Number of SATA III connectors	4
Number of SATA II connectors	0
Number of SATA connectors	0
Front panel audio connector	Yes
Front panel connector	Yes
ATX Power connector (24-pin)	Yes
CPU fan connector	Yes

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Number of CPU fan connectors	2
Number of chassis fan connectors	4
Chassis intrusion connector	Yes
EPS power connector (8-pin)	Yes
Number of EPS power connectors (8-pin)	2
Number of COM connectors	1
Thunderbolt headers	1
Number of water pump connectors	1
RGB LED pin header	Yes
Number of RGB LED pin headers	3
Rear panel I/O ports	
USB 2.0 ports quantity	2
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	0
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	3
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	0
Ethernet LAN (RJ-45) ports	1
VGA (D-Sub) ports quantity	0
HDMI ports quantity	1
DVI-D ports quantity	0
USB 3.2 Gen 2x2 Type-C ports quantity	1
HDMI version	2.1
DisplayPorts quantity	1
DisplayPort version	1.4
Headphone outputs	1
Line-in	Yes
Microphone in	Yes
WiFi-AP antenna jack	2
Network	
Wi-Fi	Yes
Ethernet LAN	Yes
Ethernet interface type	2.5 Gigabit Ethernet
Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Wi-Fi standards	Wi-Fi 7 (802.11be)
Bluetooth	Yes

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Bluetooth version	5.4
Features	
Component for	PC
Motherboard form factor	ATX
Motherboard chipset family	AMD
Motherboard chipset	AMD B850
Audio output channels	7.1 channels
Audio chip	Realtek ALC1220
Product colour	Black
Power source type	ATX
Windows operating systems supported	Windows 11
Expansion slots	
PCI Express x1 (Gen 4.x) slots	2
PCI Express x16 (Gen 4.x) slots	1
PCI Express x16 (Gen 5.x) slots	1
Number of M.2 (M) slots	3
1st M.2 largest key size	2280
1st M.2 highest PCI Express generation	5
2nd M.2 largest key size	22110
2nd M.2 highest PCI Express generation	4
3rd M.2 largest key size	2280
3rd M.2 highest PCI Express generation	4
BIOS	
BIOS type	UEFI AMI
BIOS memory size	256 Mbit
Clear CMOS button	Yes
Packaging data	
Package width	353 mm
Package depth	273 mm
Package height	68 mm
Package weight	1.81 kg
Weight & dimensions	
Width	305 mm
Depth	244 mm

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Packaging content	
Cables included	SATA
Antenna included	Yes
Other features	
mSATA ports quantity	0
Weight	1.32 kg
Quick installation guide	Yes
Matmenys ir svoris	
Matmenys (I × P × A)	36,00cm × 7,00cm × 27,00cm