



ASUS TUF GAMING B550- PLUS WIFI II AMD B550 Socket AM4 ATX

Model: 90MB19U0-M0EAY0

Manufacturer: ASUS

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Product Code: 475725

R4,294

DURABLE. STABLE. RELIABLE.

TUF GAMING B550-PLUS WIFI II distills essential elements of the latest AMD platform and combines them with game-ready features and proven durability. Engineered with military-grade components, an upgraded power solution and a comprehensive set of cooling options, this motherboard delivers rock-solid performance with unwavering gaming stability.

When you build with a TUF Gaming motherboard, you also benefit from the TUF Gaming Alliance — an ASUS collaboration with trusted industry partners that ensures easier building, best compatibility, and complementary aesthetics from components to case.

ROCK-SOLID PERFORMANCE

With upgraded power delivery and comprehensive cooling options to fuel the latest AMD Ryzen

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CPUs, plus support for faster memory and storage, TUF Gaming B550-Plus (Wi-Fi) is the perfect foundation for your next high-core-count battle rig.

Power Design

DrMOS

The onboard VRM of TUF GAMING B550-PLUS WIFI II utilizes 8+2 DrMOS power stages that combine high-side and low-side MOSFETs and driver into a single package, delivering the power and efficiency that 3rd Gen AMD Ryzen™ Processors demand.

Stack Cool 3+

2-ounce copper layers draw heat away from critical components to keep them at their optimal operating temperatures and provide more headroom to push CPUs beyond stock speeds.

ProCool Socket

ENHANCED 8-PIN CONNECTOR

- Extreme durability
- Prevent hotspots and connector failure

Compared with traditional power inputs, ProCool sockets are built to tight specifications to ensure flush contact with PSU power lines. The resulting lower impedance helps to prevent hotspots and connector failure.

TUF CHOKES

Certified military-grade TUF chokes deliver rock-steady power to the CPU, improving system stability.

TUF CAPACITORS

Proprietary capacitors provide up to 20% greater temperature tolerance and 5X-longer lifespan.

Digi+ VRM

The integrated Digi+ VRM voltage-regulator module (VRM) is one of the finest in the industry, ensuring ultra-smooth and ultra-clean power delivery to the CPU at all times.

Cooler by design

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1. VRM HEATSINK

A large, high-mass heatsink with extensive surface that covers the VRM and choke areas improves heat dissipation.

THERMAL PAD

High-quality thermal pads help transfer heat from the inductor and phase array to the heatsink.

2. M.2 HEATSINK

The M.2 heatsink keeps the M.2 SSD at the optimum operating temperature for consistent performance and reliability.

PCIe 4.0 M.2 (up to 64 Gbps)

TUF Gaming B550 series motherboards support PCIe 4.0 M.2 slot and provides NVMe SSD RAID support for an incredible performance boost. Create a RAID configuration with up to PCIe 4.0 storage device to enjoy the fastest data-transfer speeds on the 3rd Generation AMD Ryzen platform.

USB 3.2 Gen 2 Type-A & Type-C

Numerous USB ports support gaming rigs loaded with peripherals, including a USB Type-A and a Type-C connectors with fast USB 3.2 Gen 2 connectivity for compatible cases.

Thunderbolt™ 3 support

An integrated Thunderbolt™ 3 header supports up to 40 Gbps of aggregate interface bandwidth. One Thunderbolt 3 port can support up to six devices in a daisy-chain, and provide up to 15 watts of power to fast-charge devices.

EASY PC DIY

TUF Gaming motherboards are designed to be easy to set up and configure just the way you want — even for first-time builders. The TUF Gaming Alliance ecosystem makes selecting compatible parts easy, while Armoury Crate software offers full control of system settings via a single dashboard. TUF Gaming motherboards give you everything you need to build your dream gaming rig without adding complexity.

Build with confidence

TUF Gaming Alliance is a collaboration between ASUS and trusted PC-component brands to ensure

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compatibility with a wide range of parts, such as PC cases, power supplies, CPU coolers, memory kits and more. With more partnerships and components being added regularly, the TUF Gaming Alliance will continue to grow even stronger.

SafeSlot

SafeSlot is the PCIe slot reinvented by ASUS and engineered to provide superior retention and shearing resistance. Manufactured via a new insert-molding process, SafeSlot integrates fortifying metal for an inherently stronger slot, which is then firmly anchored to the PCB through additional solder points.

ESD guards

ESD Guards prolong the life of components while preventing damage from electrostatic discharge, providing protection for up to +/- 10 kV of air discharge and +/- 6 kV of contact discharge — greatly surpassing the respective industry standards of +/- 6 kV and +/- 4 kV.

TUF LANGuard

TUF LANGuard is a military-grade innovation that integrates advanced signal-coupling technology and premium surface-mounted capacitors to improve throughput, protecting the motherboard from lightning strikes and static electricity.

DRAM overvoltage protection

Onboard resettable fuses prevent overcurrent and short-circuit damage. This extends beyond I/O ports to DRAM to safeguard the lifespan of your system and connected devices.

Stainless-steel back I/O panel

TUF Gaming motherboards have a corrosion-resistant stainless-steel back I/O panel bonded with chromium oxide to provide a 3X-longer lifespan versus traditional panels. With this protective feature, TUF Gaming motherboards passed 72-hour salt fog testing, while other brands only passed 24-hour testing.

BIOS FlashBack™

BIOS FlashBack™ is the simplest and safest (UEFI) BIOS update method. Simply drop the (UEFI) BIOS file onto a FAT32 formatted USB stick, plug it into the USB BIOS FlashBack™ port and press the button. Updates can even be performed without having memory or a CPU installed.

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Armoury Crate

Armoury Crate is a new software utility designed to give you centralized control of supported gaming products. From a single intuitive interface, Armoury Crate lets you easily customize RGB lighting and effects for every compatible device in your arsenal and synchronize them with Aura Sync for unified system lighting effects. You can also turn on the AI Noise-Canceling Microphone function for crystal-clear in-game voice communication. The software also provides control of settings for a select and growing number of products, including keyboard and mouse preferences as well as laptop overclocking and fan speeds, making it easier to tune the look and feel of your system. Armoury Crate even features dedicated product registration and news areas to help you stay in touch with the gaming community

IMMERSIVE GAMING

TUF Gaming B550-Plus (Wi-Fi) provides a complete, high-performance gaming package with a long list of features to improve your experience, including ultrafast networking for smoother online gameplay, pristine audio with positional cues for FPS gaming, and onboard RGB lighting that syncs with attached accessories to help you create a personalized gaming atmosphere.

WIFI 6

The WiFi 6 module is compatible with the 802.11ax standard and pushes theoretical peak bandwidth up to an incredible 2.4 Gbps. Perhaps more importantly for power users, it's optimized for more efficient operation on crowded networks with a lot of competing traffic. Pair your motherboard with ASUS WiFi 6 routers to fully experience the networking potential of WiFi 6.

AI NOISE-CANCELING MICROPHONE

AI Noise-Canceling Microphone software is exclusively featured on ASUS motherboards and supports 3.5 mm, USB, or Bluetooth headsets. The utility leverages a massive deep-learning database to preserve the sound of your voice while eliminating distracting keyboard clatter, mouse clicks, and other forms of environmental noise. And it only places a slight load on the CPU, ensuring minimal impact on gaming performance.

Gaming audio

The unique audio codec designed in close collaboration with Realtek for TUF Gaming B550 series motherboards features an unprecedented 108 dB signal-to-noise ratio for the stereo line out and a

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103dB SNR for the line in, providing pristine audio quality.

DTS® Custom for gaming headsets

Hone your battle skills with exclusive DTS® Custom onboard audio. Utilizing advanced emulation techniques to create positional cues via stereo headphones, DTS Custom takes onboard audio to a new frontier. With three presets — Aerial, Soundscape, and Tactical — for different genres, you'll have a distinct advantage in every game.

Outshine the Competition

A well-tuned system deserves a matching aesthetic. ASUS Aura offers full RGB lighting control with a variety of functional presets for the built-in RGB LEDs as well as strips connected to the onboard RGB headers. And it can all be synced with an ever-growing portfolio of Aura-capable hardware.

Addressable Gen 2 RGB Header

The addressable Gen 2 RGB header is now capable of detecting the number of LEDs on second-gen addressable RGB devices, allowing the software to automatically tailor lighting effects to specific devices. The new header also offers backward-compatibility with existing Aura RGB gear.

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