



ASUS PRIME B550M-A WIFI II AMD B550 Socket AM4 micro ATX

Model: 90MB19X0-M0EAY0

Manufacturer: ASUS

EAN: 4711081309741

Product Code: 1249618

R2,740

ASUS Prime series is expertly engineered to unleash the full potential of 5000 Series/ 5000 G-Series/ 4000 G-Series/ 3000 Series AMD Ryzen platform. Boasting a robust power design, comprehensive cooling solutions and intelligent tuning options, Prime B550 series motherboards provide daily users and DIY PC builders a range of performance tuning options via intuitive software and firmware features.

Tune It Your Way

Comprehensive controls form the foundation of the ASUS Prime series. The Prime B550 motherboard packs flexible tools to tune every aspect of your system, enabling you to tweak performance settings to perfectly match the way you work – maximizing your productivity.

UEFI BIOS

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The renowned ASUS UEFI BIOS provides everything you need to configure, tweak and tune your system. It offers intelligently simplified options for PC DIY beginners, as well as comprehensive features for seasoned veterans.

Advanced Tuning for Serious Tweakers

An intuitive Advanced mode offered via the UEFI lets you take complete control. A built-in search feature makes it easy to find options, and various Advanced functions let you intelligently make nuanced adjustments so you can dial in performance just the way you want.

Quick and Simple Setup

EZ mode displays vital settings and stats and also offers guided wizards, drag-and-drop functionality, and one-click application of important settings — all to help you get your rig up and running in no time.

Intuitive Graphical Fan Control

Fine-tune individual fan settings simply by dragging a curve with the mouse.

EZ XMP

Improve DRAM performance with one click.

Aura On/Off mode (Stealth)

Easily enable or disable Aura RGB lighting or every onboard LED, for a subdued aesthetic touch.

Cool to the Core

Prime B550 series is engineered with multiple onboard heatsinks and an array of hybrid fan headers to ensure your rig stays cool and stable under intense workloads.

VRM Heatsink and Thermal Pads

A VRM heatsink with underneath thermal pad improves heat transfer from the MOSFETs and chokes for better cooling performance.

Cooler by Design

Prime B550 series features comprehensive cooling controls that are configurable via Fan Xpert 2+ software or via the UEFI BIOS.

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Each header can dynamically reference three thermal sensors. Fan Xpert 2+ allows you to map the temperature of supported ASUS graphics cards to optimize cooling for GPU- and CPU-intensive tasks.

A dedicated integrated circuit protects each fan header from overheating and overcurrent.

Each onboard chassis fan header supports PWM and DC mode.

Build on a Solid Foundation

Prime B550 motherboard provides all the fundamentals to boost daily productivity, so your system will be ready for action with stable power, intuitive cooling and flexible transfer options.

PCIe 4.0 M.2

(up to 64 Gbps)

Achieve speed with onboard M.2

PCIe 4.0 M.2 Slot supports up to 22110 and provide 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 AMD Ryzen™ 5000 Series/ 3000 Series Processors.

Wi-Fi 6

Wi-Fi 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.

USB 3.2 Gen 2

Type-A

Numerous USB ports support high-end rigs loaded with peripherals, including two rear-panel USB Type-A connectors with fast USB 3.2 Gen 2 connectivity for compatible cases.

Little Things Make a Big Difference

Prime B550 series adds the nuanced details that improve every experience, from exclusive codecs that provide pristine audio quality to intuitive RGB lighting controls that let you customize your system to create a uniquely personal look.

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Outstanding Audio

Combined onboard features deliver elevated audio

Intelligent design and premium hardware create audio quality unlike anything you've ever experienced.

Aura Sync

Outshine the Competition

A well-tuned enthusiast system deserves a matching aesthetic. ASUS Aura offers full RGB lighting control with a variety of functional presets for RGB LED 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 Header

The addressable Gen 2 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.

Armoury Crate

Armoury Crate is a new software utility designed to give you centralized control of supported products. From a single intuitive interface, Armoury Crate allows you to easily customize RGB lighting and effects for every compatible device in your arsenal. The software also provides control of settings for ASUS products, including keyboard and mouse preferences. Armoury Crate even features dedicated product registration and highlight to help you stay in touch with the ASUS community.

SafeSlot Core

Fortified PCIe slot prevents damage

SafeSlot Core is the ASUS-exclusive PCIe slot. Featuring a fortified design that's anchored to the motherboard by a special hook, SafeSlot Core provides 1.6x stronger retention and 1.3x greater shearing resistance than standard expansion slots.

Overvoltage Protection

World-class circuit-protecting power design

An exclusive circuit design with built-in voltage regulators to protect your motherboard from damage caused by unexpected high-level voltages from unstable or inferior power supplies.

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DRAM Overcurrent Protection

Short-circuit damage prevention

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

3X corrosion-resistance for greater durability

Corrosion-resistant stainless-steel back I/O panels bonded with chromium oxide have a lifespan that's three times longer than ordinary panels.

LANGuard

Pumped-up throughput 2.5X higher surge tolerance

ASUS LANGuard is a hardware-level network protection feature that integrates advanced signal-coupling technology and premium anti-EMI surface-mounted capacitors to improve throughput and ensure a more reliable connection.

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