



ASUS PRIME B650M-A WIFI II AMD B650 Socket AM5 micro ATX

Model: 90MB1EG0-M0EAY0

Manufacturer: ASUS

EAN: 4711387034934

Product Code: 1626804

R4,833

B650M-A WIFI II

ASUS Prime series motherboards are expertly engineered to unleash the full potential of AMD Ryzen 7000-series processors. Boasting a robust power design, comprehensive cooling solutions and intelligent tuning options, PRIME B650M-A WIFI II provides users and PC DIY builders with a range of performance optimizations via intuitive software and firmware features.

CPU Performance Boost

AMD Precision Boost Overdrive(PBO) pushes the CPU current and voltage budget to opportunistically increase performance. By aggressively tuning the PBO parameters, AMD's algorithm can leverage

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the motherboard's robust power solution to ramp up performance even higher.

All-Around Energy Efficiency

The Power Saving function contains several settings can easily optimize power consumption and maximize energy savings. You can enable a CPU power limit, darken Aura lighting, and set the fan profile to a power saving mode. You can also toggle the Power Saver plan that is built into Microsoft Windows.

Flexible Cooling Controls

ASUS Fan Xpert 2+ software provides comprehensive control over fans. An Auto-Tuning mode intelligently configures all parameters with a single click. There's also an Extreme Quiet mode that reduces chassis fan speeds to below the default minimum to keep your system whisper-quiet when performing light tasks. Fans can also be controlled via the UEFI BIOS.

Precise Digital Power Control

The Digi+ voltage-regulator module (VRM) delivers real-time control over voltage droop, automatically switching frequency and power-efficiency settings. It also allows you to fine-tune your CPU for ultimate stability and performance.

UEFI BIOS

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.

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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.

Aura On/Off Mode (Stealth)

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

COOLING

PRIME B650 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 Pad

VRM heatsink and thermal pads improve heat transfer from the MOSFETs and chokes for better cooling performance.

Six-Layer PCB Design

Multiple PCB layers optimize heat management for critical components, providing more headroom to push CPUs beyond stock speeds.

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.

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Cooler by Design

Prime B650 series features comprehensive cooling controls that are configurable via Fan Xpert 2+ software or via the UEFI BIOS.

Multiple Temperature Sources

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.

Smart Protection

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

4-Pin PWM/DC Fan

Each onboard header supports auto-detection of PWM or DC fans.

PERFORMANCE

The PRIME B650 series is built to handle the high core counts and bandwidth demands of AMD processors. ASUS B650 motherboard provides all the fundamentals to boost daily productivity, so your system will be ready for action with stable power, intuitive cooling and flexible data transfer options

DDR5 Performance Enhancement

Comprehensive memory tuning options are the cornerstone of PRIME motherboards. With the PRIME B650M-A WIFI II, you can extract all of 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.

For entry-level modules without EXPO™ memory support, we've got you covered. [Click here to learn more about AEMP.](#) .

For those who want to fly past stock DDR5 speeds, the PRIME B650M-A WIFI II is primed and ready for enthusiast-grade kits courtesy of vast AMD Extended Profiles for Overclocking (EXPO™) support.

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Seasoned veterans can further tweak performance via the extensive array of settings in the UEFI

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