ASUS Prime X870-P WIFI AMD X870 Socket AM5 ATX

Model: 90MB1IS0-M0EAY0

Manufacturer: ASUS

EAN: 4711387718148

Product Code: 1615315

R5,716

ASUS Prime series motherboards are expertly engineered to unleash the full potential of AMD Ryzen™ 9000 series processors. Boasting a robust power design, comprehensive cooling solutions and intelligent tuning options, the PRIME X870-P WIFI motherboard provides users and PC DIY builders with a range of performance optimizations via intuitive software and firmware features. It’s designed to be Advanced AI PC-ready, offering the power and connectivity needed for demanding AI applications.

Performance

AI Solutions

ASUS AI Solutions, including AI Networking II for real-time bandwidth optimization and AI Cooling II for thermal control, offer new levels of ultrafast connectivity, performance and efficient cooling.

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Performance

Robust power design

Stable power is crucial for maximizing the performance of AMD processors. The PRIME X870-P WIFI 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 80 amperes each. This configuration ensures optimal power delivery, efficiency, stability and performance for both current and future AMD processors.

Enhanced Memory & Storage Performance

Enhanced DDR5 performance

Comprehensive memory tuning options are the cornerstone of PRIME motherboards. The PRIME X870-P WIFI maximizes the potential of your DDR5 modules, from entry-level to extreme-speed kits.3

For entry-level modules without EXPO™ support, ASUS Enhanced Memory Profile (AEMP) automatically detects memory chips and provides optimized profiles for enhanced performance. For those looking to surpass stock DDR5 speeds, the PRIME X870-P WIFI offers extensive AMD Extended Profiles for Overclocking (EXPO™) support and a wide array of UEFI settings for further performance tweaks4.

Four M.2 slots (up to 128 Gbps)

PRIME X870-P WIFI offers a total of four M.2 slots, including one that supports data-transfer speeds of up to 128 Gbps via PCIe 5.0, two that support 64 Gbps via PCIe 4.0, and one that supports PCIe 3.0. This enables quicker boot-up and app load times with OS or application drives5.

Cooling

Cooler by design

The PRIME X870-P WIFI motherboard is engineered with multiple onboard heatsinks and an array of hybrid fan headers to help ensure your rig stays cool and stable under intense workloads.

Smart Cooling precision

ASUS Fan Xpert 4

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ASUS Fan Xpert 4 software offers comprehensive control over fans and AIO coolers. Auto-Tuning mode configures settings with one click, while Extreme Quiet mode reduces fan speeds for silent operation during light tasks. Controls are also available via the UEFI BIOS.

Cooler compatibility

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

Flexibility

Empowering connections

The PRIME X870-P WIFI motherboard offers a versatile range of connectivity, including support for WiFi 7, PCIe 5.0, Realtek 2.5Gb Ethernet, and an array of USB ports.

WiFi 7

The next-gen WiFi 76 supports 160 MHz bandwidth in the 6 GHz band and 4096 QAM. Multi-Link Operation (MLO) ensures stable connections and low latency, supporting 2.4, 5, and 6 GHz bands for enhanced coverage and throughput.

USB 40Gbps Type-C® ports

Each port delivers up to 40Gbps of bi-directional bandwidth for the latest super-speed devices and drives. Both ports can be employed for up to two external 4K displays.

PCIe 5.0 slot

The latest processors introduce PCIe 5.0 support, doubling data transfer speeds compared to PCIe 4.0, enhancing signal integrity, and providing backward-compatible CEM connectors and support for previous PCIe versions.

Customization

Personalization

The PRIME X870-P WIFI enhances the user experience across the board, from simplifying BIOS setting adjustments to offering customizable RGB lighting controls for a uniquely personal system

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aesthetic.

UEFI BIOS

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

ASUS GlideX

Enable seamless screen sharing and control across PCs, tablets, and smartphones via wired or wireless connections, supporting multiple platforms.

ASUS DriverHub

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

Armoury Crate

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

Aura Sync

Complete RGB lighting control for enthusiast systems, ensuring seamless synchronization with compatible hardware.

Addressable Gen 2 RGB headers

Three addressable Gen 2 headers detect LED counts on compatible RGB devices, automatically adjusting lighting effects accordingly.

Customization

DIY friendly

The PRIME X870-P WIFI motherboard features EZ PC DIY innovations that simplify and speed up the PC building process, making DIY easy and convenient.

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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.

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 graphics card or other compatible device.

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 Core

The Q-LED Core display produces color-coded lights during the Power-On Self-Test (POST) that can help you troubleshoot potential issues.

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.

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.

SafeSlot

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PCIe 5.0 is twice as fast as PCIe 4.0. ASUS has adapted our SMT manufacturing for the faster SafeSlot, a reinforced metal sheath that ensures secure card installation and faster data speeds.

Build for the most advanced pc for gaming and creating

When only the fastest will do, ASUS X870E/X870 motherboards deliver. With USB 4.0 onboard along with robust overclocking7 capabilities, featuring 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 ASUS X870E/X870 motherboard and AMD Ryzen™ 9000, 8000, and 7000 Series processors.

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