

ASUS X870 MAX GAMING WIFI7 W AMD X870 Socket AM5 ATX

Model: 90MB1LZ0-M0EAY0

Manufacturer: ASUS

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Product Code: 1618438

R7,825

X870 MAX GAMING WIFI7 W

ASUS X870 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 X870 MAX GAMING WIFI7 W 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 include ASUS AI Advisor as your technical expert with expertise in PC

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performance, AI Cooling II for automated temperature control.

ASUS AI Advisor

ASUS AI Advisor is an ASUS technical expert that's always available to answer your questions. Owners of compatible ASUS motherboards can 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 fan speed tuning, and for seasoned PC-building veterans, it can offer guidance and instructions on the latest features offered by ASUS.

AI Cooling II

AI Cooling II balances the thermals and acoustics of any build with a single click. An exclusive ASUS algorithm slashes unnecessary noise while running a quick stress test, and then it monitors CPU temperatures to dynamically adjust fans to optimal speeds.

Performance

Robust power design

Stable power is crucial for maximizing the performance of AMD processors. The X870 series is designed to meet the needs of high-core-count CPUs. It features 12(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 X870 series motherboards. The X870 MAX GAMING WIFI7 W maximizes the potential of your DDR5 modules, from entry-level to extreme-speed kits.

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 X870 MAX GAMING WIFI7 W offers extensive AMD Extended Profiles for Overclocking (EXPO™) support and a wide array of UEFI settings for further performance tweaks.

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Three M.2 slots (up to 128 Gbps)

X870 MAX GAMING WIFI7 W offers a total of three M.2 slots, including one that supports data-transfer speeds of up to 128Gbps via PCIe 5.0, two that support 64Gbps via PCIe 4.0. This enables quicker boot-up and app load times with OS or application drives.

Cooling

Cooler by design

The X870 MAX GAMING WIFI7 W 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

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 X870 series 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 7 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

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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 X870 series enhances the user experience across the board, from simplifying BIOS setting adjustments to offering customizable RGB lighting controls for a uniquely personal system aesthetic.

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.

BIOS Q-Dashboard

Simplify your motherboard configuration with BIOS Q-Dashboard. Its intuitive visual representation of hardware connections and corresponding BIOS settings takes the complexity out of setting up your system. Upgrade now, and discover the power of BIOS Q-Dashboard to easily and efficiently enhance your computing setup.

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.

ASUS MyHotkey

This feature is flexible to customize BIOS hotkey for various use scenarios, users can set F3 and F4 optional functions, and then during the Power-On Self-Test (POST) you can more efficiently toggle

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ASUS EZ Flash 3 or boot from a specified device.

Search Function

Quickly and easily find the option or setting you need.

ASUS User Profile

Easily port configuration settings between different BIOS versions or share them with friends.

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.

ASUS GlideX

ASUS GlideX is a cross-device, cross-platform screen-sharing, screen-control and operation solution for enhanced productivity across PCs, tablets, and smartphones via wired or wireless connections. Features include screen mirroring, screen extension, unified control with one keyboard and mouse, easy file transfers, and using mobile cameras as PC webcams. It's compatible with Windows, macOS, Android, and iOS.

ASUS DriverHub

ASUS DriverHub streamlines the installation and management of ASUS drivers and utilities to keep your hardware up-to-date and performing optimally. This standalone application automatically detects current driver versions and presents available updates in a list view. By default, it supports

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ASUS motherboards, and users are invited to install ASUS DriverHub after OS installation. Additionally, ASUS DriverHub offers one-click installation and update checks, making it easier for users to keep their systems running smoothly and efficiently.

Armoury Crate

Within a single intuitive interface, Armoury Crate offers easily customized Aura Sync RGB settings for every compatible device in your arsenal, plus controls for an ever-growing family of ASUS products, including keyboard and mouse preferences. Armoury Crate also integrates product registration and a news feed so that the ASUS community always has access to interesting updates.

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 the built-in RGB LEDs as well as strips and devices connected to the onboard RGB headers — and it can all be synced with an ever-growing portfolio of Aura-capable hardware.

Customization

DIY friendly

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

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.

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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

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 overclocking 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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