

ASUS TUF GAMING X870E-PLUS WIFI7 AMD X870E Socket AM5 ATX

Model: 90MB1M70-M0EAY0

Manufacturer: ASUS

EAN: 4711636100342

Product Code: 421707

R7,837

ASUS TUF GAMING X870E-PLUS WIFI7 takes all the essential elements of the latest AMD Ryzen™ processors and combines them with game-ready features and proven durability. Engineered with military-grade components, an upgraded power solution and a comprehensive cooling system, this motherboard goes beyond expectations with rock-solid and stable performance for marathon gaming. TUF GAMING motherboards also undergo rigorous endurance testing to ensure that they can handle conditions where others may fail. This platform delivers the power and connectivity that advanced AI PC applications demand.

Intelligent

Complete AI Solution

ASUS AI Solutions – including AI Advisor, AI Overclocking, AI Cooling II for thermal control and AI

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Networking II for real-time bandwidth optimization – offer smart assistance, one click overclocking, efficient cooling and new levels of ultrafast connectivity.

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 AI Overclocking and AI Cooling II, and for seasoned PC-building veterans, it can offer guidance and instructions on the latest features offered by ASUS.
* Availability of ASUS AI Advisor may vary by region.

AI Overclocking

Maximized CPU performance, and predictions for ideal CPU and cooling settings, pushing your system to its limits.

AI Cooling II

Optimized thermals, and reduced noise via dynamic adjustment of fan speeds, based on CPU temperatures.

AI Networking II

Optimized network performance, helping to ensure seamless connectivity and maximized WiFi 7 speeds.

Intelligent
Overclocking

DYNAMIC OC SWITCHER

Dynamic OC Switcher maximizes CPU performance by letting you set current and temperature thresholds to automatically switch between a manual overlock for heavy multithreaded workloads

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and Precision Boost Overdrive for single-threaded tasks. The latest Overclocking Load Guard has an enhanced instantaneous current protection mechanism to prevent users from experiencing system crashes during overclocking.

CORE FLEX

Core Flex empowers you to smash limits farther than ever before by letting you control power and thermals in creative new ways. In its simplest form, you can set breakpoints to gradually reduce CPU core frequency as temperature or current increases. But the system is extremely adaptable, supporting multiple user-controlled functions that can manipulate power, current and temperature limits independently so that you can bend CPU performance to your will.

Intelligent
Intelligent Control

UEFI BIOS

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

ASUS DriverHub

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

ASUS GlideX

Enable seamless screen sharing and control across PCs, tablets, and smartphones via USB or WiFi, supporting multiple platforms.

Armoury Crate

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

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Performance

Premium Power Design

Stable power is crucial for maximizing the performance of AMD processors. The motherboard is designed to meet the needs of high-core-count CPUs. It features 16(80A) + 2(80A) + 1(80A) power stages that integrate high-side and low-side MOSFETs and drivers into packages rated for up to 80A each. This configuration ensures optimal power delivery, efficiency, stability and performance for both current and future AMD processors.

Eight Layered PCB design

Enhanced stability and overclocking.

ProCool Power Connectors

Proprietary 8+8 pin connectors improve PSU connection.

TUF Components

TUF chokes and capacitors offer rock-solid durability and stability.

Digi+VRM Control

Real-time voltage control.

Performance

Memory & Storage

DRAM Overclocking Performance

Comprehensive memory tuning options are the cornerstone of TUF GAMING motherboards. With the motherboard, you can extract all 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.

* Memory overclocking may vary between CPU series. Please refer to the spec table for detailed information.

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DDR5 DOMINANCE

For those who want to fly past stock DDR5 speeds, this motherboard is primed and ready for enthusiast-grade kits, courtesy of vast AMD Extended Profiles for Overclocking (EXPO™) support. Seasoned veterans can further tweak performance via an extensive array of settings in the UEFI.

ASUS AEMP

ASUS Enhanced Memory Profile (AEMP) is an exclusive firmware feature for PMIC-restricted memory modules. AEMP automatically detects the memory chips on your kit and then presents optimized frequency, timing and voltage profiles that you can quickly apply.

M.2 PCIe 5.0 Support

This motherboard also features two PCIe 5.0 M.2 slots to enjoy the fastest data transfers of up to 128 Gbps*, and all M.2 slots support NVMe RAID configurations to take advantage of the latest available speeds.

Cooling
Cooler by Design

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

Connectivity
Empowering Connection
This motherboard offers a versatile range of connectivity with PCIe 5.0, USB4® 40Gbps and front USB 20Gbps Type-C® connectors with Fast Charge support.

PCIe 5.0 for Graphics Card

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PCIe 5.0 offers twice the data transfer speed of PCIe 4.0, making it robust enough to handle new data-heavy tasks. PCIe 5.0 also brings other benefits, such as electrical changes to improve signal integrity, backward-compatible CEM connectors for add-in cards and backward compatibility with previous versions of the PCIe bus.

USB4® 40Gbps Type-C® Port

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.

Front USB 20Gbps Type-C®

This motherboard features a USB 20Gbps Type-C® front panel connector for speedy data transfers of up to 20Gbps. And it offers Power Delivery (PD) 3.0 technology to provide up to 30W of quick charging.

DIY
Easy PC DIY

PCIe Slot Q-Release Slim

Simply tilt the card toward the latching mechanism to automatically unlock it from the PCIe slot. This makes upgrades and maintenance easier than ever before. Users will no longer need to fiddle with a tricky latch or even press a button to release their graphics card from the slot.

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.

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

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neatly detach it with one tap.

Q-LED

The on-board Q-LED troubleshooting lights give PC builders a quick indicator to confirm that key components — CPU, RAM, graphics card, storage devices — are functioning normally during startup. It can also alert them when memory modules have not been properly installed--even before booting.

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.

DIY

Build With Confidence

TUF GAMING Alliance is a collaboration between ASUS and trusted PC component brands to ensure compatibility across a wide range of parts, such as PC cases, power supplies, CPU coolers, memory kits and more. With new partnerships and components being added regularly, the TUF GAMING Alliance will continue to grow even stronger.

Gaming

Ultrafast Networking

Provide a feature-packed high-performance gaming package, with ultrafast networking for smoother online gameplay.

2.5Gb Ethernet

On-board 2.5Gb Ethernet kicks your LAN connection up a notch by improving bandwidth speeds up to 2.5X faster than 1Gb connections.

WiFi 7

WiFi 7 ensures stable connections and low latency.

ASUS WiFi Q-Antenna

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ASUS WiFi Q-Antenna delivers up to 18% stronger wireless signal reception compared to the previous generation.

Audio

Realtek 7.1 Channel Audio

ALC1220P

This motherboard utilizes an audio codec designed in close collaboration with Realtek — the Realtek ALC1220P. It features an unprecedented 120 dB signal-to-noise (SNR) ratio for the stereo line out and a 113 dB SNR for the line in, providing pristine audio quality. Additionally, an impedance-sensing circuit automatically adjusts gain to ensure an optimal volume range for your headphones.

DTS Audio Processing

DTS® Audio Processing enhances gaming headset and speaker audio experiences by reducing distortion and by providing deeper bass, so games, movies and music sound better. It also allows you to customize audio settings.

Lighting

Outshine The Competition

ASUS Aura Sync offers synchronized lighting with other Aura Sync products, including motherboards, graphics cards, monitors and peripherals.

Addressable Gen 2 RGB Headers

Automatically optimize lighting effects for the number of LEDs present in compatible ARGB gear.

In Search of Sustainable Solution

ASUS is on a mission to create a sustainable future where all can flourish on the planet we call home. Every step counts, and as part of ASUS’s commitment to creating a more sustainable future, ASUS has begun to utilize post-consumer recycled (PCR) plastic and paper materials certified by the Forest Stewardship Council (FSC™) in the packaging of motherboard.

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Join us on our journey as we make the world a better place.

BUILD FOR THE MOST ADVANCED PC FOR GAMING AND CREATING

When only the fastest will do, TUF Gaming X870E / X870 motherboards deliver. With USB 4.0 onboard along with robust overclocking1 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 TUF Gaming X870 motherboard and AMD Ryzen™ 9000, 8000, and 7000 Series processors.

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