

ASUS TUF GAMING B660M-PLUS WIFI Intel B660 LGA 1700 micro ATX

Model: 90MB1AZ0-M0EAY0

Manufacturer: ASUS

EAN: 4711081604358

Product Code: 475733

R4,011

Durable. Stable. Reliable.

ASUS TUF GAMING B660M-PLUS WIFI takes all the essential elements of the latest Intel® 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 offers rock-solid and stable performance for marathon gaming. Aesthetically, TUF GAMING B660M-PLUS WIFI sports the new TUF Gaming logo and incorporates simple geometric design elements to reflect the dependability and stability that defines the TUF Gaming series.

Rock-Solid Performance

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With upgraded power delivery and comprehensive cooling options to drive the 12th Gen Intel Core™ processors, plus support for faster memory and storage, TUF GAMING B660M series motherboards are the perfect foundation for your next high-core-count battle rig.

Power Design

DrMOS

The onboard VRMs feature 10+1 DrMOS power stages that combine high-side and low-side MOSFETs and drivers into a single package, delivering the power and efficiency that 12th Gen Intel Core processors demand.

Six-Layer PCB Design

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

ProCool Connectors

Enhanced EATX 8-Pin and 4-Pin Connectors

- Provide extreme durability
- Prevent hotspots and connector failure

Compared to traditional power inputs, ASUS ProCool connectors are built to tight specifications to ensure full contact with PSU power cables. The resulting lower impedance helps prevent hotspots and connector failure.

TUF Components

TUF Chokes
Certified military-grade TUF chokes deliver rock-solid power to the CPU, improving system stability.

TUF Capacitors

Proprietary capacitors provide up to 20% wider temperature tolerance and five times longer lifespan.

Digi+ VRM

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The integrated Digi+ voltage-regulator module (VRM) is one of the finest in the industry, optimized for ultra-smooth and ultra-clean power delivery to the CPU at all times.

COOLING

Cooler by design

1. Enlarged VRM heatsink

The extensive surface area of the massive heatsink covers the VRMs and chokes to improve heat dissipation.

2. Dual M.2 slots with heatsinks

Dual M.2 slots have dedicated heatsinks, keeping M.2 SSDs at optimal operating temperatures to ensure consistent performance and reliability.

Comprehensive Fan Controls

TUF GAMING B660M series motherboards feature comprehensive fan controls that can be configured via the Fan Xpert 2+ utility or the award-winning ASUS UEFI BIOS.

MEMORY & STORAGE

DRAM Overclocking Performance

DDR5 OC 6000

Improvements to trace routing design provide the latest Intel processors with enhanced access to memory bandwidth. ASUS OptiMem II technology carefully maps memory signal pathways across different PCB layers to reduce path distance, and it adds shielding zones that significantly reduce crosstalk.

Two PCIe 4.0 M.2

The Two PCIe 4.0 M.2 slots support up to two 2280 devices and also provide NVMe SSD RAID support for incredible performance potential. Create a RAID configuration with up to two PCIe 4.0 storage devices to enjoy the fastest data transfer speeds.

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CONNECTIVITY

PCIe 5.0

The 12th Gen Intel processors bring PCIe 5.0 support to the market. 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 PCI Express

Front USB Port

A full complement of USB ports support high-end rigs loaded with peripherals, including a front-panel USB 3.2 Gen 1 Type-C® connector that provides data transfer speeds of up to 5 Gbps.

USB 3.2 Gen 2x2 Type-C®

Extensive USB support ensures connections to a wide array of peripherals. TUF GAMING B660M-PLUS WIFI includes a USB 3.2 Gen 2x2 Type-C® port on the rear I/O panel that delivers increased bandwidth and transmission speeds of up to 20 Gbps.

Thunderbolt™ 4 Support

TUF GAMING B660M series features Thunderbolt™ 4 support via an on-board header. With an Intel-certified ASUS ThunderboltEX 4 add-on card* TUF GAMING B660M-PLUS WIFI can also enable bi-directional speeds of up to 40 Gbps on a single cable. Additionally, this card has a daisy-chain function for multi-screen connection and supports up to an 8K resolution display. It can also provide up to 100 watts of power to fast-charge devices.
* ASUS ThunderboltEX 4 add-on card is sold separately.

40 Gbps via Thunderbolt 4
Consistent, superfast performance

Easy PC DIY

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TUF GAMING motherboards are designed to be easy to set up and configure just the way you want — even for first-time builders. The TUF GAMING Alliance ecosystem makes selecting compatible parts easy, while Armoury Crate software provides Fan Xpert 2+ and hardware information and offers full full control of Two-Way AI Noise Cancellation, RGB lighting and peripheral settings. The TUF GAMING platform gives you the arsenal you need to build and optimize your dream gaming rig, without unnecessary complexity.

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.

TUF PROTECTION

SafeSlot & SafeDIMM
PCIe 5.0 is 2x faster than PCIe 4.0, so we adapted our SMT manufacturing process for the faster SafeSlot, to ensure the highest data speeds. SafeSlot is a reinforced metal sheath added to a PCIe slot to keep a card firmly installed. Meanwhile, strong ASUS SafeDIMM sheathes support and protect memory modules on select ASUS motherboards, empowering you to insert your modules with speed, accuracy and confidence.

ESD Guards

ESD Guards prolong the life of components while preventing damage from electrostatic discharge, providing protection for up to +/- 10 kV of air discharge and +/- 6 kV of contact discharge — greatly surpassing the respective industry standards of +/- 6 kV and +/- 4 kV. Surface-mounted TVS diodes in a dual in-line package help protect your PC from voltage spikes.

TUF LANGuard

TUF LANGuard is a military-grade innovation that integrates advanced signal-coupling technology and premium surface-mounted capacitors to improve throughput, protecting the motherboard from lightning strikes and static electricity.

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DRAM Overvoltage Protection

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 Panel

TUF GAMING motherboards have a corrosion-resistant stainless steel back I/O panel bonded with chromium oxide to provide a lifespan that’s three times longer than traditional panels. With this protective feature, TUF GAMING motherboards passed 72-hour salt fog testing, while other brands only passed 24-hour testing.

EASY CONFIGURATION

M.2 Q-Latch

The innovative Q-Latch makes it easy to install or remove an M.2 SSD without the need for specific tools. The design employs a simple locking mechanism to secure the M.2 SSD, neatly eliminating the need for screws.

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.

Armoury Crate

Armoury Crate is exclusive ASUS software that gives you centralized control of supported gaming products. From a single intuitive interface, Armoury Crate lets you easily customize RGB lighting and effects for every compatible device in your arsenal and synchronize them with Aura Sync for unified system lighting effects. It also provides hardware information and control of settings for a select and growing number of products, including keyboard and mouse preferences, Fan Xpert 2+ and Two-Way AI Noise Cancelation, making it easier to tune the look and feel of your system. Armoury Crate even features dedicated product registration and news sections to help you stay in touch with the

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gaming community.

Immersive Gaming

TUF GAMING B660M series motherboards provide a high-performance gaming package with a long list of features to improve your experiences, including ultrafast networking for smoother online gameplay, pristine audio with positional cues for FPS gaming, and onboard RGB lighting that syncs with attached accessories to help you create a personalized gaming atmosphere.

Networking

Intel® WiFi 6
The Intel® WiFi 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. The WiFi antenna designs with four-way positioning that enables better signal reception, and a magnetic base to secure the antenna on the top or side of the PC case.

EXCLUSIVE 2.5 GIGABIT ETHERNET

2.5G on-board Ethernet kicks your LAN connection up a notch with an up to 2.5X bandwidth improvement. Using your existing LAN cable, you can take advantage this networking upgrade to experience smoother, lag-free gaming, immediately stream high-resolution videos and enjoy faster file transfers.

Two-Way AI Noise Cancelation

This powerful ASUS-exclusive utility leverages a massive deep-learning database to reduce background noise from the microphone* and incoming audio while preserving voices. Distracting keyboard clatter, mouse clicks and other ambient noises are removed so you can hear and be heard with perfect clarity while gaming or during calls.

Gaming Audio

Realtek 7.1 Surround Sound

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1.TUF Gaming audio chip protection

Enhanced electrical shielding preserves the integrity of audio signals to ensure the best quality.

2. High-definition audio

Premium audio capacitors provide warm, natural and immersive sound.

3. Audio shielding

Our specialized audio path design separates analog and digital signal domains to significantly reduce multi-lateral interference.

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.

Outshine the Competition

A well-tuned system deserves a matching aesthetic. TUF Gaming B660M series features edge lighting to enhance its rugged look, and now the PCH heatsink gets RGB lighting to take the style even further. ASUS Aura offers full RGB control with a variety of functional presets for built-in LEDs as well as third-party strips you can connect to onboard RGB headers. And it can all be synced with an ever-growing portfolio of Aura-capable hardware.

Addressable Gen 2 RGB Header

The addressable Gen 2 RGB 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 addressable RGB gear.

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