ASUS TUF GAMING A620M-PLUS AMD A620 Socket AM5 micro ATX

Model: 90MB1EZ0-M0EAY0

Manufacturer: ASUS

EAN: 4711387164303

Product Code: 1613764

R3,331

ASUS TUF GAMING A620M-PLUS takes all the essential elements of AMD Ryzen 7000-series 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. Aesthetically, this model incorporates rugged off-black and geometric design elements to reflect the dependability and stability that defines the TUF GAMING series.

INTELLIGENT CONTROL

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Comprehensive controls form the foundation of the ASUS TUF GAMING series. The TUF GAMING A620 motherboard packs flexible tools to tune every aspect of your system, enabling performance tweaks to perfectly match the way you work to maximize productivity.

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.

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 and comprehensive features for seasoned veterans.

Armoury Crate

The ASUS-exclusive Armoury Crate centralizes easy control of supported gaming products. A single intuitive interface lets you customize RGB lighting for all compatible devices and link them to Aura Sync for unified illumination. It also offers information and control for a select and growing hardware ecosystem, with input device settings, Fan Xpert 2+ and Two-Way AI Noise Cancelation. Armoury Crate even features product registration, and a news section to stay in touch with the gaming community.

ROCK-SOLID PERFORMANCE

With upgraded power delivery and comprehensive cooling options to fuel AMD's CPUs, plus support for faster memory and storage, TUF GAMING A620 motherboards are the perfect foundation for your next high-core-count AMD battle rig.

Six-Layer PCB Design

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Multiple PCB layers optimize heat management for critical components to keep them at their optimal operating temperatures.

TUF Components

TUF Chokes

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

TUF Capacitors

The TUF 5K black metallic capacitors provide 52% wider temperature tolerance and a 2.5X-longer lifespan than standard motherboard capacitors.

Digi+ VRM

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.

DRAM Overclocking Performance

Comprehensive memory tuning options are the cornerstone of TUF GAMING motherboards. With TUF GAMING A620 motherboards, 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.

PCIe 4.0 Support

Dual M.2 slots support up to PCIe 4.0 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 fast data transfer speeds.

Cooler By Design

Enlarged VRM Heatsink

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

Comprehensive Fan Controls

TUF GAMING A620 motherboards feature comprehensive fan controls that can be configured via Fan Xpert 2+ utility in Armoury Crate or the award-winning ASUS UEFI BIOS.

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Connectivity

TUF GAMING A620 motherboards reach new heights of performance potential with the PCI Express, dual DisplayPort, while an arsenal of USB ports, including USB Type-A connectors with fast USB 3.2 Gen 1 connectivity and one front USB 3.2 Gen 1 Type-C® connector for compatible cases.

EASY PC DIY

The TUF GAMING line offers easy setup for all builders. The TUF GAMING Alliance ecosystem grants compatibility, while Armoury Crate has Fan Xpert 2+, hardware info, Two-Way AI Noise Cancelation, RGB options and peripheral settings. This platform has intuitive tools to build and optimize dream rigs.

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.

SafeSlot Core+

SafeSlot Core+ is the ASUS-exclusive PCIe slot fortified with a one-piece stainless-steel brace that shields the slot to protect it from damage. The metal cover is tightly secured to the slot with hooks, and the entire assembly is firmly anchored to the PCB with strengthened solder points to provide a secure foundation for heavyweight graphics cards.

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.

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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.

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.

BIOS FlashBack™

BIOS FlashBack™ is the simplest and safest (UEFI) BIOS update method. Simply drop the (UEFI) BIOS file onto a FAT32 formatted USB stick, plug it into the USB BIOS FlashBack™ port and press the button. Updates can even be performed without a memory or a CPU installed.

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 Core

The Q-LED Core display produces light patterns by power LED during the Power-On Self-Test (POST) that can help users troubleshoot potential issues.

IMMERSIVE GAMING

TUF GAMING A620 motherboards provide a feature-packed high-performance gaming package, with ultrafast networking for smoother online gameplay, pristine audio with positional cues for FPS

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Gaming, and onboard RGB lighting that syncs with attached gear to personalize your gaming atmosphere.

2.5 Gb Ethernet

2.5 Gb on-board Ethernet kicks your LAN connection up a notch with a bandwidth improvement of up to 2.5X. 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.
*An audio splitter (3.5 mm audio jack Y-cable) is necessary when using a 3.5 mm headset.

Realtek 7.1 Surround Sound

The unique audio codec designed in close collaboration with Realtek for TUF GAMING A620 motherboards features an unprecedented 98 dB signal-to-noise ratio for the stereo line out, providing pristine audio quality.

Outshine The Competition

A well-tuned system deserves a matching aesthetic. The TUF GAMING A620 series features edge lighting to enhance its rugged look, and ASUS Aura offers full RGB control with presets for built-in LEDs and third-party strips. It can all sync with an ever-growing portfolio of Aura-compatible hardware.

Addressable Gen 2 RGB Headers

Three addressable Gen 2 RGB headers will support up to 500 LEDs on Gen 2 RGB devices, empowering Aura Sync to automatically tailor lighting effects across your whole system. The new

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headers also offer full backward compatibility with existing Aura Sync gear.

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