

ASUS PRIME A620M-E-CSM AMD A620 Socket AM5 micro ATX

Model: 90MB1F50-M0EAYC

Manufacturer: ASUS

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Product Code: 1685202

R2,448

ASUS PRIME series motherboards are expertly engineered to unleash the full potential of AMD Ryzen 7000-series processors. Boasting a robust power design, comprehensive cooling solutions and intelligent tuning options, PRIME A620M-E-CSM provides users and PC DIY builders with a range of performance optimizations via intuitive software and firmware features.

ASUS Corporate Stable Model

ASUS Corporate Stable Model (CSM) is a commercial program designed to provide stable and reliable motherboards. Offering up to 36-month product lifecycle support and 6-month end-of-life notice to allow sufficient lead times for your organization to get ready for product transitions. Each purchase of an ASUS CSM motherboard comes with ASUS Control Center Express - server-grade IT

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management software.

* Lifecycle support, program offering and supply status may vary by region. Please consult your local sales representative for more information.

ASUS Control

Center Express

ASUS Control Center Express is an integrated IT monitoring and management software designed to deploy faster, simplify IT operations and improve productivity with comprehensive control and user-friendly functions. ASUS Control Center Express is compatible with over 100 ASUS motherboards to provide a high-quality, TCO-optimized solution for your business needs.

Optimize IT endpoint management

Designed to assist IT staff in monitoring and controlling devices within their corporate networks, and facilitate inventory checking in multiple locations remotely

Automate IT maintenance

Allows IT staff to schedule automatic updates of the latest BIOS, software and utilities to specific or all devices at off-peak times, enhancing system stability and IT operational flexibility

Securely manage all of endpoints

Securely manage endpoint configuration, portable storage access and PC software applications by enabling them to create grouping rules on individual devices

FLEXIBILITY

Comprehensive controls form the foundation of the ASUS PRIME series. The PRIME 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.

Intelligent Control

All-Around Energy Efficiency

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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.

Flexible Cooling Controls

ASUS Fan Xpert 2+ software provides comprehensive control over fans. An Auto-Tuning mode intelligently configures all parameters with a single click. There’s also an Extreme Quiet mode that reduces chassis fan speeds to below the default minimum to keep your system whisper-quiet when performing light tasks. Fans can also be controlled via the UEFI BIOS.

Precise Digital Power Control

The Digi+ voltage-regulator module (VRM) delivers real-time control over voltage droop, automatically switching frequency and power-efficiency settings. It also allows you to fine-tune your CPU for ultimate stability and performance.

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.

Advanced Tuning for Serious Tweakers

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.

Search Function

Quickly and easily find the option or setting you need.

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ASUS User Profile

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

Quick and Simple Setup

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.

COOLING

PRIME A620M-E-CSM is engineered with an array of hybrid fan headers and two ounce copper PCB design to ensure your rig stays cool and stable under intense workloads.

Cooler by Design

PRIME A620 series feature comprehensive cooling controls that are configurable via Fan Xpert 2+ software or via the UEFI BIOS.

Multiple Temperature Sources

Each header can dynamically reference three thermal sensors. Fan Xpert 2+ allows you to map the temperature of supported ASUS graphics cards to optimize cooling for GPU- and CPU-intensive tasks.

Smart Protection

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A dedicated integrated circuit protects each fan header from overheating and overcurrent.

4-Pin PWM/DC Fan

Each onboard header supports auto-detection of PWM or DC fans.

Stack Cool 3+

2oz copper PCB design can draw heat away from critical components to keep the optimal operating temperatures.

PERFORMANCE

The PRIME A620 series is built to handle the high core counts and bandwidth demands of AMD processors. ASUS A620 motherboard provides all the fundamentals to boost daily productivity, so your system will be ready for action with stable power, intuitive cooling and flexible data transfer options.

Memory

DDR5 Performance Enhancement

Comprehensive memory tuning options are the cornerstone of PRIME motherboards. With the PRIME A620M-E-CSM, 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.

For entry-level modules without EXPO™ memory support, we’ve got you covered. Click here to learn more about AEMP. arrow.

For those who want to fly past stock DDR5 speeds, the PRIME A620M-E-CSM 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 the extensive array of settings in the UEFI.

Storage

PCIe 4.0 M.2 Support

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PRIME A620M-E-CSM offers one M.2 slot that supports data-transfer speeds of up to 64 Gbps via PCIe 4.0, enabling quicker boot-up and app load times with OS or application drives.
*Actual transmission speeds will be lower than the theoretical maximum speed.

Connectivity

PCIe 4.0 Slot

PRIME A620M-E-CSM offers PCIe 4.0 slot connectivity for the GPUs. The wide bandwidth and superfast transmission speeds allow you to create feature-rich builds that can handle high loads effortlessly.

USB 3.2 Gen 1 Type-A

Numerous USB ports support high-end rigs loaded with peripherals, including rear-panel USB Type-A connectors with fast USB 3.2 Gen 1 connectivity for compatible cases.

Realtek 1Gb Ethernet

Realtek 1Gb Ethernet reduces CPU overhead and offers exceptionally high TCP and UDP throughput for faster, smoother data transfers.

LANGuard

ASUS LANGuard is a hardware-level network protection feature that integrates advanced signal-coupling technology and premium anti-EMI surface-mounted capacitors to improve throughput and ensure a more reliable connection.

Combined onboard features deliver elevated audio

Intelligent design and premium hardware create audio quality unlike anything you’ve ever experienced.

Audio Shielding

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Audio shielding ensures precision analog/digital separation and greatly reduced multi-lateral interference.

Dedicated Audio PCB Layers

Separate layers for left and right tracks ensures both channels deliver consistent, equal quality.

Premium Audio Capacitors

Provides warm, natural, and immersive sound with exceptional clarity and fidelity.

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.

Addressable Gen 2 Headers

Two Addressable Gen 2 headers are 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 headers also offer backward-compatibility with existing Aura RGB gear.

TWO-WAY AI NOISE CANCELATION

This utility leverages a massive deep-learning database to reduce background noise from the microphone and incoming audio, while preserving vocals at the same time. This removes distracting keyboard clatter, mouse clicks and other ambient noises so you can hear and be heard with crystal clarity while gaming or in calls.

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,

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including keyboard and mouse preferences. Armoury Crate also integrates product registration and a news feed so that you never miss updates of interest to the ASUS community.

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.

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.

Strengthened solder points around the PCIe and DIMM pins.

Metal inserts keep graphics cards properly aligned during installation.

The metal side-panels feature hooks that firmly clasp the slot body.

Overvoltage Protection

World-class circuit-protecting power design

An exclusive circuit design with built-in voltage regulators to protect your motherboard from damage caused by unexpected high-level voltages from unstable or inferior power supplies.

Stainless-Steel Back I/O

3X corrosion-resistance for greater durability

Corrosion-resistant stainless-steel back I/O panels bonded with chromium oxide have a lifespan that's three times longer than ordinary panels.

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