

ASUS PRIME H610M-K ARGB Intel H610 LGA 1700 micro ATX

Model: 90MB1G90-M0EAY0

Manufacturer: ASUS

EAN: 4711387313350

Product Code: 475782

R2,794

ASUS Prime series motherboards are expertly engineered to unleash the full potential of 13th & 12th Generation Intel® processors. Boasting a robust power design, comprehensive cooling solutions and intelligent tuning options, Prime H610 provides users and PC DIY builders a range of performance tuning options via intuitive software and firmware features.

FLEXIBILITY

Comprehensive controls form the foundation of the ASUS Prime series. The Prime H610 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

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All-Around Energy Efficiency

The Energy Processing Unit (EPU) automatically optimizes power consumption and maximizes energy savings with Away mode — a smart setting that creates an extreme energy-saving scenario by shutting down unused I/O controllers.

Flexible cooling controls

Prime 600 Series motherboards offer comprehensive control over system fans, via the included Fan Xpert 2+ software. Auto-Tuning mode intelligently configures all parameters with a single click.

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.

ASUS User Profile

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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.

EZ XMP

Improve DRAM performance with one click.

Aura On/Off Mode (Stealth)

Easily enable or disable Aura RGB lighting or every onboard LED, for a subdued aesthetic touch.

COOLING

Cooler by Design

Prime H610 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

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

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4-Pin PWM/DC Fan

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

PERFORMANCE

Prime H610 series are built to handle the additional cores and increased bandwidth of 13th & 12th Generation Intel® processors. ASUS H610 motherboards provide all the fundamentals to boost daily productivity, so your system will be ready for action with stable power, intuitive cooling and flexible transfer options.

Memory

DDR5 Performance

Comprehensive memory tuning options are the cornerstone of PRIME motherboards. With the PRIME H610M-K ARGB, 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 those who want to fly past stock DDR5 speeds, the PRIME H610M-K ARGB is primed and ready for enthusiast-grade kits courtesy of Intel® Extreme Memory Profile (XMP) support. Seasoned veterans can further tweak performance via the extensive array of settings in the UEFI.

Storage

M.2 slot (up to 32 Gbps)

PRIME H610M-K ARGB offers one M.2 slot that supports data-transfer speeds of up to 32 Gbps via PCIe 3.0, enabling quicker boot-up and app load times with OS or application drives.

Connectivity

PCIe 4.0

Prime H610 motherboards are designed specifically for 13th & 12th Generation Intel® Core™ CPUs and offer PCIe 4.0 connectivity for GPUs. The wide bandwidth and superfast transmission speeds

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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.

Audio

Combined onboard features deliver elevated audio

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

Audio Shielding

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.

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.

Personalization

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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

Three 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.

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 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.

Fortified PCIe slot prevents damage

SafeSlot Core is the ASUS-exclusive PCIe slot. Featuring a fortified design that's anchored to the motherboard by a special hook, SafeSlot Core provides 1.6x stronger retention and 1.3x greater shearing resistance than standard expansion slots.

Overvoltage Protection

World-class circuit-protecting power design

An exclusive circuit design with built-in voltage regulators to protect your motherboard from damage

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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.

LANGuard

Pumped-up throughput 2.5X higher surge tolerance

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.

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