ASUS PRIME H610M-K D4 Intel H610 LGA 1700 micro ATX

Model: 90MB1A10-M0EAY0

Manufacturer: ASUS

EAN: 4711081565499

Product Code: 1455900

R2,778

ASUS Prime series motherboards are expertly engineered to unleash the full potential of 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 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.
* Specifications vary by models.

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.

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

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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.

COOLING

Prime H610 series are engineered with an array of hybrid fan headers to ensure your rig stays cool and stable under intense workloads.

Cooler by Design

Prime H610 series feature comprehensive cooling controls that are configurable via Fan Xpert software or via the UEFI BIOS.

Multiple Temperature Sources

Each header can dynamically reference three thermal sensors. Fan Xpert 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.

4-Pin PWM/DC Fan

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

PERFORMANCE

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Prime H610 series are built to handle the additional cores and increased bandwidth of 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.

Storage

M.2 slot (up to 32 Gbps)

Prime H610M-K D4 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.

* Actual transmission speeds will be lower than the theoretical maximum speed.

Connectivity

PCIe® 4.0

Prime H610 motherboards are designed specifically for 12th Generation Intel® Core™ CPUs and offer PCIe® 4.0 connectivity for the latest 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.

CUSTOMIZATION

Audio

Combined onboard features deliver elevated audio

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

Audio Shielding

Separates analog/digital signal domains, significantly reducing multi-lateral interference.

Separate Layer for Left and Right Tracks

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Ensures minimal crosstalk between audio paths.

Personalization

Armoury Crate

Armoury Crate is a new software utility designed to give you centralized control of supported products, from a single intuitive interface. Armoury Crate provides control of settings for ASUS products, including keyboard and mouse preferences. This software even features dedicated product registration and highlight to help you stay in touch with 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 caused by unexpected high-level voltages from unstable or inferior power supplies.

DRAM Overcurrent Protection

Short-circuit damage prevention

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

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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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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