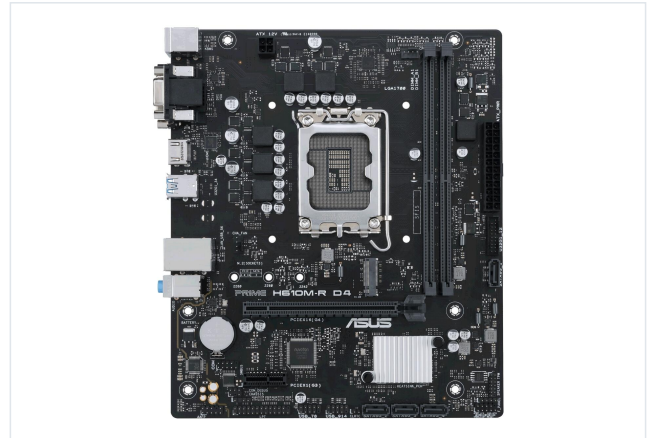


ASUS PRIME H610M-R D4-SI

Asus Prime H610M-R D4 SI Intel 12th / 13th Gen Socket LGA 1700 mATX Motherboard

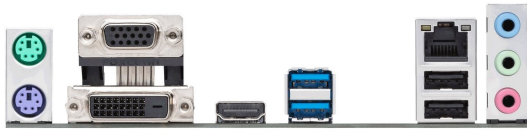
Product Overview

Asus Prime H610M-R D4 SI Intel 12th / 13th Gen Socket LGA 1700 mATX Motherboard, SI system intergartor board, Intel H610M Chipset, 2 x DDR4 DIMM Memory slots, D-Sub Port, DVI-D Port, HDMI Port, Realtek 1GB Ethernet, USB 3.2 Gen 1 Ports, USB 2.0 Ports, 1x PCI-e 4.0 x16 slot, 1x PCI-e 3.0 x1 slot, 3x audio jacks, 1x M.2 slot supports up to PCI-e 3.0 x4 mode, 4x SATA 6Gb/s ports



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Product Specification Sheet



Specifications

Overview:

PRIME H610M-R D4

Intel H610 (LGA 1700) mic-ATX motherboard with DDR4, PCIe 4.0, M.2 slot, Realtek 1 Gb Ethernet, HDMI, D-Sub, DVI, USB 3.2 Gen 1 ports, SATA 6 Gbps, COM header, LPT header, TPM header

- Intel LGA 1700 socket: Ready for 12th Gen Intel processors
- Comprehensive cooling: PCH heatsink
- Ultrafast connectivity: 32Gbps M.2 slot, Realtek 1 Gb Ethernet and USB 3.2 Gen 1
- 5X Protection III: Multiple hardware safeguards for all-round protection

Features:

Ports

- PS/2
- D-Sub port
- DVI-D port
- HDMI port
- 2 x USB 3.2 Gen 1 ports (2 x Type-A)
- Realtek 1Gb Ethernet
- 2 x USB 2.0 ports (2 x Type-A)
- 3 x Audio jacks
- Expansion Slots: 1 x PCIe 4.0 x16 SafeSlot Core, 1 x PCIe 3.0 x1
- 1 x LPT header
- 2 x DIMM: DDR4 3200
- Intel Socket LGA1700 for 13th and 12th Gen Intel Core Processors
- 1 x USB 3.2 Gen 1 header
- 1 x M.2 slot: 1 x M.2 2280 (PCIe 3.0 X 4 mode)
- Intel H610 Chipset
- 4 x SATA 6Gb/s
- 2 x USB 2.0 headers

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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Product Specification Sheet

ASUS 5-Way Optimization makes your PC smart. Along with taking care of complex tuning and dynamically optimizing essential aspects of your system, it provides overclocking profiles that are tailored for your rig.

- Easy Optimization is an automated tuning utility that enhances overclocking and cooling profiles for your unique system configuration.
- A stress test feature allows you to optimize and overclock for CPU- or memory-centric workloads.

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.

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.

MemTest 86

This memory testing software is pre-installed into the UEFI BIOS and lets you pinpoint memory issues with just one click, without the need for a USB stick or going into the OS. It stores the memory report in the BIOS archives for reference.

Prediction

AI Overclocking monitors system vitals such as temperature, fan speed, and power draw to estimate overclocking performance.

Aura On/Off Mode (Stealth)

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

COOLING

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

M.2 Heatsink

M.2 heatsink wards off throttling that can occur with M.2 storage during sustained transfers. The heatsink is held in place by captive screws and can be moved to other M.2 slots.

VRM Heatsink and Thermal Pad

VRM heatsink and thermal pad improve heat transfer from the MOSFETs and chokes for better cooling performance.

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 the thermal sensor. UEFI BIOS allows you to map the temperature of CPU and motherboard.

Dual-Pump Headers

A dedicated header supplies over 3 amps* for high-performance PWM or DC water pumps, plus a second dedicated header for AIOs.

*AIO Pump header supports 1 amp, and Water Pump+ header supports 3 amps.

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Product Specification Sheet

Smart Protection

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

4-Pin PWM Fan

Each onboard header supports auto-detection of PWM fan.

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.

Robust Power Design

Stable power is essential to extract every last bit of performance out of 12th Generation Intel processors. Prime H610-PLUS D4 is geared to cater to the demands of these high-core-count CPUs.

ProCool Connector

Proprietary connector augments the motherboard's link to the PSU with 8 pin connector that passes 12 volts of power directly to the processors. Each jack features solid pins that can handle more current than hollow-pin connectors.

16+1 Power Stages

A VRM with 16+1 DrMOS delivers the power and efficiency that the latest Intel processors demand.

ASUS OptiMem

Revisions to the motherboard's trace routing provide the latest Intel processors with unrestricted access to memory bandwidth. ASUS OptiMem technology carefully maps memory signal pathways across different PCB layers to reduce vias and adds shielding zones that significantly reduce crosstalk.

DDR4 5000(OC)

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

M.2 slot (up to 32 Gbps)

Prime H610M-R 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.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/ASUS-PRIME-H610M-R-D4-SI-Asus-Prime-H610M-R-D4-SI-Intel-Buy-p-319721.php>

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