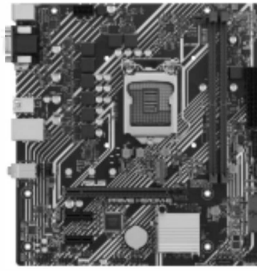# PRIME H510M-E

Especificaciones

CPU

Intel® Socket LGA1200 for 11th Gen Intel® Core™ Processors & 10th Gen Intel® Core™, Pentium® Gold and Celeron® Processors*

Supports Intel® 14 nm CPU

Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0**

* Refer to www.asus.com for CPU support list.

** Intel® Turbo Boost Max Technology 3.0 support depends on the CPU types.

Chipset

Intel® H510 Chipset

Memory

2 x DIMM, Max. 64GB, DDR4 3200(OC)/2933/2800/2666/2400/2133 MHz Non-ECC, Un-buffered Memory*

Dual Channel Memory Architecture

Supports Intel® Extreme Memory Profile (XMP)

* 10th Gen Intel® Core™ i7/i9 processors support 2933/2800 /2666/2400/2133 natively, others will run at the maximum transfer rate

of DDR4 2666MHz.

* 11th Gen Intel® processors support 2933/2800/2666/2400/2133 natively.

* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists), and memory frequency support depends on the CPU types.

Graphics

1 x DisplayPort 1.4**

1 x D-Sub

1 x HDMI™ 2.0***

* Graphics specifications may vary between CPU types.

** Intel® 11th & 10th Gen processors support DisplayPort 1.4 with max. resolution of 4096 x 2304 @60Hz. Please refer to www.intel.com for any update.

*** Only Intel® 11th Gen processors support HDMI™ 2.0 with max. resolution of 4K@60Hz, others will only support HDMI™ 1.4 with max. resolution of 4K@30Hz. Please refer to www.intel.com for any updates.

Expansion Slots

Intel® 11th & 10th Gen Processors

1 x PCIe 4.0/3.0 x16 slot

- Intel® 11th Gen processors support PCIe 4.0 x16

- Intel® 10th Gen processors support PCIe 3.0 x16

Intel® H510 Chipset

2 x PCIe 3.0 x1 slots

Storage

Total supports 1 x M.2 slot and 4 x SATA 6Gb/s ports

Intel® H510 Chipset

M.2 slot (Key M), type 2242/2260/2280 (supports PCIe 3.0 x4 & SATA modes)

4 x SATA 6Gb/s ports

* The M.2 slot shares bandwidth with SATA6G_2. When a device in SATA mode is installed on the M.2 slot, SATA6G_2 port cannot be used.

Ethernet

1 x Intel® I219-V 1Gb Ethernet

USB

Rear USB (Total 4 ports)

2 x USB 3.2 Gen 1 ports (2 x Type-A)

2 x USB 2.0 ports (2 x Type-A)

Front USB (Total 6 ports)

1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports

2 x USB 2.0 headers support additional 4 USB 2.0 ports

Audio

Realtek ALC897/887 7.1 Surround Sound High Definition Audio CODEC*

- Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking

- Supports up to 24-Bit/192 kHz playback

Audio Features

- Audio Shielding

- Premium Japanese audio capacitors

- Dedicated audio PCB layers

* A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.

Back Panel I/O Ports

2 x USB 3.2 Gen 1 ports (2 x Type-A)

2 x USB 2.0 ports (2 x Type-A)

1 x DisplayPort

1 x D-Sub port

1 x HDMI™ port

1 x Intel® I219-V 1Gb Ethernet port

3 x Audio jacks

1 x PS/2 Keyboard (purple) port

1 x PS/2 Mouse (green) port

Internal I/O Connectors

Fan and Cooling related

1 x 4-pin CPU Fan header

1 x 4-pin Chassis Fan header

Power related

1 x 24-pin Main Power connector

1 x 8-pin +12V Power connector

Storage related

1 x M.2 slot (Key M)

4 x SATA 6Gb/s ports

USB

1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports

2 x USB 2.0 headers support additional 4 USB 2.0 ports

Miscellaneous

1 x RGB header

1 x Clear CMOS header

1 x COM Port header

1 x Front Panel Audio header (AAFP)

1 x S/PDIF Out header

1 x Speaker header

1 x SPI TPM header (14-1pin)

1 x 10-1 pin System Panel header

Special Features

ASUS 5X PROTECTION III

- DIGI+ VRM

- LANGuard

- Overvoltage Protection

- SafeSlot Core

- Stainless-Steel Back I/O

ASUS Q-Design

- Q-DIMM

- Q-Slot

ASUS Thermal Solution

- Aluminum heatsink design

ASUS Lighting Control

 RGB header

Software Features

ASUS Exclusive Software

Armoury Crate

AI Suite 3

- Performance And Power Saving Utility

 TurboV EVO

 EPU

 DIGI+ VRM

 Fan Xpert

- EZ update

ASUS CPU-Z

AI Charger

DAEMON Tools

Norton Anti-virus software (Free Trial version)

WinRAR

UEFI BIOS

ASUS EZ DIY

- ASUS CrashFree BIOS 3

- ASUS EZ Flash 3

BIOS

128 Mb Flash ROM, UEFI AMI BIOS

Manageability

WOL by PME, PXE

Accessories

Cables

2 x SATA 6Gb/s cables

Miscellaneous

1 x I/O Shield

1 x M.2 SSD screw package

Installation Media

1 x Support DVD

Documentation

1 x User manual

Operating System

Windows® 11 64-bit, Windows® 10 64-bit

Form Factor

mATX Form Factor

8.9 inch x 8.3 inch (22.6 cm x 21.1 cm)