

PRIME B450M-A II

CPU AMD AM4 Socket for 3rd/2nd/1st Gen AMD Ryzen™/2nd and 1st Gen AMD Ryzen™ with Radeon™ Vega Graphics/Athlon™ with Radeon™ Vega Graphics Processors *

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

Chipset AMD B450

Memory 3rd/2nd/1st Gen AMD Ryzen™/ 2nd and 1st Gen AMD Ryzen™ with Radeon™ Vega Graphics/ Athlon™ with Radeon™ Vega Graphics Processors

4 x DIMM, Max. 128GB, DDR4

4400(O.C.)/4000(O.C.)/3866(O.C.)/3733(O.C.)/3600(O.C.)/3466(O.C.)/3400(O.C.)/3300(O.C.)/3200(O.C.)/3000(O.C.)/2800(O.C.)/2666/2400/2133 MHz Unbuffered Memory *

Dual Channel Memory Architecture

ECC Memory (ECC mode) support varies by CPU.

* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

* The maximum memory frequency supported varies by processor.

Graphic Integrated Graphics in the 2nd and 1st Gen AMD Ryzen™ with Radeon™ Vega Graphics/ Athlon™ with Radeon™ Vega Graphics Processors *

1 x D-Sub

1 x DVI-D

1 x HDMI 2.0b

*Graphics specifications may vary between CPU types.

Expansion Slots 3rd/2nd/1st Gen AMD Ryzen™ Processors

1 x PCIe 3.0 x16 (x16 mode)

2nd and 1st Gen AMD Ryzen™ with Radeon™ Vega Graphics Processors

1 x PCIe 3.0 x16 (x8 mode)

AMD Athlon™ with Radeon™ Vega Graphics Processors

1 x PCIe 3.0 x16 (x4 mode)

AMD B450 chipset

2 x PCIe 2.0 x1

StorageTotal supports 1 x M.2 slot(s) and 6 x SATA 6Gb/s ports
3rd/2nd/1st Gen AMD Ryzen™/ 2nd and 1st Gen AMD Ryzen™ with Radeon™ Vega Graphics : *¹

1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIe 3.0 x 4 mode)

Athlon™ with Radeon™ Vega Graphics Processors : *¹

1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA mode)

3rd/2nd/1st Gen AMD Ryzen™/ 2nd and 1st Gen AMD Ryzen™ with Radeon™ Vega Graphics/ Athlon™ with Radeon™ Vega Graphics Processors :

2 x SATA 6Gb/s port(s),

Support Raid 0, 1, 10

AMD B450 chipset :

4 x SATA 6Gb/s port(s),

Support Raid 0, 1, 10

LANRealtek® RTL8111H

ASUS LANGuard

AudioRealtek 7.1-Channel High Definition Audio CODEC *

- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking, up to 24-Bit/192kHz playback

Audio Feature :

- LED-illuminated design

- Audio Shielding

- Dedicated audio PCB layers

- Premium Japanese audio capacitors

* Choose the chassis with HD audio module in front panel to support 8-channel audio output.

USB Ports**Rear USB Port** (Total 6)

2 x USB 3.2 Gen 2 (up to 10Gbps) port(s)(2 x Type-A)

4 x USB 3.2 Gen 1 port(s)(4 x Type-A)

Front USB Port (Total 6)

2 x USB 3.2 Gen 1 port(s)

4 x USB 2.0 port(s)

Software FeaturesASUS Exclusive Software

Armoury Crate

- AURA Creator
 - AURA Sync
- AI Suite 3
- Performance and Power Saving Utility
- TurboV EVO
- EPU
- DIGI+ VRM
- Fan Xpert 2+
- PC Cleaner
- EZ update
 - System Information
- ASUS CPU-Z
- AI Charger
- ASUS EZ Installer
- DAEMON Tools
- Norton Anti-virus software (Free Trial for 60 days)
- WinRAR
- UEFI BIOS
- ASUS EZ DIY
- ASUS CrashFree BIOS 3
 - ASUS EZ Flash 3
 - ASUS UEFI BIOS EZ Mode

ASUS Special Features ASUS 5X PROTECTION III

- ASUS DIGI+ VRM
- ASUS LANGuard
- ASUS Overvoltage Protection
- ASUS SafeSlot Core
- ASUS Stainless-Steel Back I/O

ASUS Q-Design

- ASUS Q-DIMM
- ASUS Q-Slot

ASUS Thermal Solution

- Aluminum heatsink design

ASUS EZ DIY

- BIOS FlashBack™ button
- BIOS FlashBack™ LED

AURA Sync

- AURA RGB header

ASUS Lighting Control

Back I/O Ports 1 x PS/2 keyboard/mouse combo port(s)

1 x DVI-D

1 x D-Sub

1 x HDMI

1 x LAN (RJ45) port(s)

2 x USB 3.2 Gen 2 (teal blue) (2 x Type-A)

4 x USB 3.2 Gen 1 (blue) Type-A

3 x Audio jack(s)

1 x BIOS FlashBack™ Button(s)

Internal I/O Ports

1 x CPU Fan connector(s) (1 x 4 -pin)

2 x Chassis Fan connector(s) (2 x 4 -pin)

1 x USB 3.2 Gen 1(up to 5Gbps) connector(s) support(s) additional 2 USB 3.2 Gen 1 port(s) (19-pin)

2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)

1 x M.2 Socket 3 with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIE 3.0 x 4 mode)

1 x SPI TPM header

1 x COM port(s) connector(s)

6 x SATA 6Gb/s connector(s)

1 x S/PDIF out header(s)

1 x 24-pin EATX Power connector(s)

1 x 8-pin ATX 12V Power connector(s)

1 x Front panel audio connector(s) (AAFP)

1 x System panel(s)

1 x Clear CMOS jumper(s)

1 x COM port header

1 x Speaker connector

1 x RGB Header

Accessories

User's manual

I/O Shield

2 x SATA 6Gb/s cable(s)

1 x M.2 Screw Package

1 x Supporting DVD

BIOS

256 Mb Flash ROM, UEFI AMI BIOS

Operating System

Windows® 10 64-bit

Windows® 7 64-bit *2

Form Factor

mATX Form Factor

9.6 inch x 9.5 inch (24.4 cm x 24 cm)

Note1*The M.2 slot shares bandwidth with the SATA6G_5/6 ports, and therefore the SATA6G_5/6 ports cannot be used when an M.2 device is installed.

2*To support Windows 7 64-bit, please install an AMD Ryzen™ 2nd Generation or Ryzen™ 1st Generation Processor.