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TUF GAMING B450M-PLUS II

Overview

Tech Specs

Support

CPU

AMD AM4 Socket for AMD Ryzen™ 5000 Series/ 5000 G-Series/ 4000 G-Series/ 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.)/3533(O.C.)/3466(O.C.)/3400(O.C.)/3200(O.C.)/3000(O.C.)/2800(O.C.)/2666/2400/2133 MHz Un-buffered 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 HDMI 2.0b

1 x DVI-D

*Graphics specifications may vary between CPU types.

Multi-GPU Support

Supports AMD 2-Way CrossFireX Technology

Expansion Slots

3rd/2nd/1st Gen AMD Ryzen™ Processors

1 x PCIe 3.0/2.0 x16 (x16 mode)

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

1 x PCIe 3.0/2.0 x16 (x8 mode)

Athlon™ with Radeon™ Vega Graphics Processors

1 x PCIe 3.0/2.0 x16 (max at x4 mode)

AMD B450 chipset

1 x PCIe 2.0 x16 (x4 mode)

1 x PCIe 2.0 x1

Storage

Total 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 x M.2 Socket 3, with M Key, Type

2242/2260/2280/22110(PCIe 3.0 x4 and SATA modes) storage devices support*¹

Athlon™ with Radeon™ Vega Graphics Processors :

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

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

LAN

Realtek RTL8111H 1Gb Ethernet

TUF LANGuard

Audio

Realtek ALC887/897 7.1 Surround Sound High Definition Audio CODEC

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

Audio Feature :

- Exclusive DTS Custom for GAMING Headsets.
- Audio cover
- Audio Shielding

- Dedicated audio PCB layers
 - Premium Japanese audio capacitors
-

USB Ports

Rear USB Port (Total 6)

- 1 x USB 3.2 Gen 2 port(s)(1 x Type-A)
- 3 x USB 3.2 Gen 1 port(s)(2 x Type-A +1 x Type-C)
- 2 x USB 2.0 port(s)(2 x Type-A)

Front USB Port (Total 6)

- 2 x USB 3.2 Gen 1 port(s)(2 x Type-A)
 - 4 x USB 2.0 port(s)(4 x Type-A)
-

Software Features

ASUS Exclusive Software

Armoury Crate

- Aura Creator
- Aura Sync
- AI Noise-Canceling Microphone

AI Suite 3

- Performance And Power Saving Utility

TurboV EVO

EPU

Digi+ VRM

Fan Xpert 2+

- EZ update
- PC Cleaner

TUF GAMING CPU-Z

AI Charger

ASUS Turbo LAN

DAEMON Tools

DTS Custom for GAMING Headsets

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 TUF PROTECTION

- ASUS DIGI+ VRM
- ASUS Enhanced DRAM Overcurrent Protection
- ASUS ESD Guards
- TUF LANGuard
- ASUS Overvoltage Protection
- ASUS SafeSlot
- 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

Back I/O Ports

1 x PS/2 keyboard/mouse combo port(s)
1 x DVI-D
1 x HDMI
1 x LAN (RJ45) port(s)
1 x USB 3.2 Gen 2 (teal blue) Type-A,
2 x USB 3.2 Gen 1 (blue) Type-A
1 x USB 3.2 Gen 1 (black) Type-C
2 x USB 2.0
3 x Audio jack(s)
1 x BIOS FlashBack™ Button(s)

Internal I/O Ports

1 x CPU Fan connector(s)
2 x Chassis Fan connector(s)
1 x Aura RGB Strip Header
1 x USB 3.2 Gen 1 (up to 5Gbps) connector(s) support(s)
additional 2 USB 3.2 Gen 1 port(s)
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
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 EATX 12V Power connectors
1 x Front panel audio connector(s) (AAFP)
1 x Clear CMOS jumper(s)
1 x System panel connector

1 x COM port header

1 x Speaker connector

Accessories

User's manual

I/O Shield

2 x SATA 6Gb/s cable(s)

1 x Supporting DVD

1 x TUF Gaming Sticker

1 x TUF Certification card(s)

1 x M.2 SSD screw package(s)

BIOS

256 Mb Flash ROM, UEFI AMI BIOS

Manageability

WOL by PXE

Operating System

Windows® 10 64-bit

Windows® 7 64-bit *2

Form Factor

mATX Form Factor

9.6 inch x 9.6 inch (24.4 cm x 24.4 cm)

Note

*1 The M.2 slot shares bandwidth with the SATA_5/6 ports,

and therefore the SATA_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.



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