TUF GAMING B450M-PLUS 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.)/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

LANRealtek RTL8111H 1Gb Ethernet
TUF LANGuard

AudioRealtek ALC887 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.

- Products certified by the Federal Communications Commission and Industry Canada will be distributed in the United States and Canada. Please visit the ASUS USA and ASUS Canada websites for information about locally available products.
- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- Specifications and features vary by model, and all images are illustrative. Please refer to specification pages for full details.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.

- Specifications and features vary by model, and all images are illustrative. Please refer specification pages for full details.
- *Precise specifications and features vary by model . Please refer to the specification page
- The product (electrical , electronic equipment, Mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.
- The use of trademark symbol (TM, ®) appears on this website means that the word text, trademarks, logos or slogans, is being used as trademark under common laws protection and/or registered as Trademark in U.S. and/or other country/region.

Want More?

Who We Are