

TUF GAMING B450M-PLUS II_One Page Spec

Note: The specifications are subject to change without notice.

CPU	<p>AMD Socket AM4 for 3rd/2nd/1st Gen AMD Ryzen™/2nd and 1st Gen AMD Ryzen™ with Radeon™ Vega Graphics/ Athlon™ with Radeon™ Vega Graphics Processors*</p> <p>*Refer to www.asus.com for CPU support list.</p>
Chipset	<p>AMD B450 Chipset</p>
Memory	<p>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*</p> <p>Dual Channel Memory Architecture</p> <p>*ECC Memory (ECC mode) support varies by CPU. *The maximum memory frequency supported varies by processor. *Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).</p>
Graphics	<p>Integrated Graphics in the 2nd and 1st Gen AMD Ryzen™ with Radeon™ Vega Graphics/ Athlon™ with Radeon™ Vega Graphics Processors</p> <p>1 x HDMI™ 2.0b 1 x DVI-D</p> <p>*Graphics specifications may vary between CPU types.</p>
Expansion Slots	<p>3rd/2nd/1st Gen AMD Ryzen™ Processors 1 x PCIe 3.0 x16 slot (supports x16 mode)</p> <p>2nd and 1st Gen AMD Ryzen™ with Radeon™ Vega Graphics Processors 1 x PCIe 3.0 x16 slot (supports x8 mode)</p> <p>AMD Athlon™ with Radeon™ Vega Graphics Processors 1 x PCIe 3.0 x16 slot (supports x4 mode)</p> <p>AMD B450 Chipset 1 x PCIe 2.0 x16 slot (supports x4 mode) 1 x PCIe 2.0 x1 slot</p>
Multi-GPU Support	<p>Supports AMD 2-Way CrossFireX™ Technology</p>
Storage	<p>Total supports 1 x M.2 slot and 6 x SATA 6Gb/s ports</p> <p>3rd/2nd/1st Gen AMD Ryzen™/ 2nd/1st Gen AMD Ryzen™ with Radeon™ Vega Graphics 1 x M.2 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 3.0 x4 & SATA modes)</p> <p>AMD Athlon™ with Radeon™ Vega Graphics Processors 1 x M.2 slot (Key M), type 2242/2260/2280/22110 (supports SATA mode)</p> <p>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 ports with Raid 0, 1, 10 support</p> <p>AMD B450 Chipset 4 x SATA 6Gb/s ports with Raid 0, 1, 10 support</p> <p>*The M.2 slot shares bandwidth with the SATA_5/6 ports, and therefore the SATA_5/6 ports cannot be used when a M.2 device is installed.</p>
Ethernet	<p>1 x Realtek RTL8111H 1Gb Ethernet</p>
USB	<p>Rear USB (Total 6 ports)</p> <p>1 x USB 3.2 Gen 2 port (1 x Type-A) 3 x USB 3.2 Gen 1 ports (2 x Type-A + 1 x USB Type-C®) 2 x USB 2.0 ports (2 x Type-A)</p>

	<p>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</p>
Audio	<p>Realtek ALC887 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</p> <p>Audio Features - Audio Shielding - Premium Japanese audio capacitors - Dedicated audio PCB layers - Audio cover</p> <p>*A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.</p>
Back Panel I/O Ports	<p>1 x USB 3.2 Gen 2 port (1 x Type-A) 3 x USB 3.2 Gen 1 ports (2 x Type-A + 1 x USB Type-C®) 2 x USB 2.0 ports (2 x Type-A) 1 x DVI-D 1 x HDMI™ port 1 x Realtek RTL8111H 1Gb Ethernet port 3 x Audio jacks 1 x BIOS FlashBack™ button 1 x PS/2 Keyboard/Mouse combo port</p>
Internal I/O Connectors	<p>Fan and cooling related 1 x 4-pin CPU Fan header 2 x 4-pin Chassis Fan headers</p> <p>Power related 1 x 24-pin Main Power connector 1 x 8-pin +12V Power connector</p> <p>Storage related 1 x M.2 slot (Key M) 6 x SATA 6Gb/s ports</p> <p>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</p>
	<p>Miscellaneous 1 x AURA RGB header 1 x Clear CMOS header 1 x COM Port header 1 x Front Panel Audio header (AAFP) 1 x Speaker header 1 x S/PDIF out header 1 x SPI TPM header (14-1pin) 1 x 10-1 pin System Panel header</p>
Special Features	<p>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</p> <p>ASUS Q-Design</p>

Special Features	<ul style="list-style-type: none"> - 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
Software Features	<p>ASUS Exclusive Software</p> <ul style="list-style-type: none"> 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
BIOS	256 Mb Flash ROM, UEFI AMI BIOS
Manageability	WOL by PME, PXE
Accessories	<p>Cables</p> <ul style="list-style-type: none"> 2 x SATA 6Gb/s cables <p>Miscellaneous</p> <ul style="list-style-type: none"> 1 x I/O Shield 1 x M.2 SSD screw package 1 x TUF Gaming sticker <p>Installation Media</p> <ul style="list-style-type: none"> 1 x Support DVD <p>Documentation</p> <ul style="list-style-type: none"> 1 x TUF Certification card 1 x User manual
Operating System	<p>Windows 10 64-bit</p> <p>Windows 7 64-bit*</p> <p>*To support Windows 7 64-bit, please install an AMD Ryzen™ 2nd Generation or Ryzen™ 1st Generation Processor.</p>
Form Factor	mATX Form Factor

Form factor	9.6 inch x 9.6 inch (24.4 cm x 24.4 cm)
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Dimension	
Product (mm)_ L*W*H	L 244*W 244*H 45mm
Color Box (mm)_ L*W*H	L 275*W 265*H 675mm
Weight	
Motherboard only (kg)	0.6kg
Full package (kg)	1.13kg