

PRIME B450-PLUS

Note: The specifications are subject to change without notice.

CPU	<p>AM4 socket for AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors Supports CPU up to 8 cores* * Due to CPU limitation, CPU cores supported varies by processor. ** Refer to www.asus.com for the AMD CPU support list.</p>
Chipset	AMD B450 Chipset
Memory	<p>AMD Ryzen™ 2nd Generation Processors/AMD Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors 4 x DIMM, max. 64GB, DDR4 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 List).</p>
Expansion Slots	<p>AMD Ryzen™ 2nd Generation/ Ryzen™ 1st Generation Processors 1 x PCI Express 3.0 x16 slot(max.@x16 mode) AMD Ryzen™ with Radeon™ Vega Graphics Processors 1 x PCI Express 3.0 x16 slot(max.@x8 mode) AMD B450 Chipset: 1 x PCI Express 2.0 x 16 slots (max. at x4 mode) 3 x PCI Express 2.0 x1 slots</p>
Multi-GPU support	Supports AMD CrossFireX™ Technology
VGA	<p>Integrated Graphics in the AMD Ryzen™ with Radeon™ Vega Graphics Processors Multi-VGA output support: DVI, HDMI port - Supports DVI with a maximum resolution of 1920 x 1200 @60Hz - Supports HDMI 2.0b with a maximum resolution of 4096 x 2160 @60Hz - Maximum shared memory of 2048 MB</p>
Storage	<p>AMD B450 Chipset - 4 x Serial ATA 6.0 Gb/s connectors with RAID 0, RAID 1 and RAID 10 support AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors - 2 x Serial ATA 6.0 Gb/s connectors with RAID 0, RAID 1 and RAID 10 support AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors - 1 x M.2 socket 3 with M Key, Type 2242/2260/2280/22110(PCIe 3.0 x4 and SATA modes)storage devices support* *The M.2 Socket 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.</p>
LAN	Realtek® 8111H Gigabit LAN Controller
Audio	<p>Realtek® ALC 887-VD2 8-Channel High Definition Audio CODEC - LED-illuminated design: Brighten up your build with the gorgeous illuminated audio trace path. - Audio Shielding: Ensures precision analog/digital separation and greatly reduces multi-lateral interference - Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals - Premium Japanese audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity - Supports jack-detection and front panel jack-retasking *Use a chassis with HD audio module in the front panel to support an 8-channel audio output.</p>
USB	<p>AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors - 3 x USB 3.1 Gen1 (up to 5Gbps) ports (2 Type A at back+ 1 Type C at back) AMD B450 Chipset: - 2 x USB 3.1 Gen 2 (up to 10 Gbps) ports (2 ports at back) - 2 x USB 3.1 Gen 1 (up to 5Gbps) ports (2 ports at mid-board) - 6 x USB 2.0 ports (2 ports at back,4 ports at mid-board)</p>
ASUS Unique Features	<p>Dependable Stability ASUS 5X PROTECTION III - ASUS SafeSlot Core - Fortified PCIe Slot prevents damage - ASUS LANGuard: Protects against LAN surges, lightning strikes and static-electricity discharges - ASUS Overvoltage Protection: World-class circuit-protecting power design - ASUS Stainless-Steel Back I/O: 3X corrosion-resistance for greater durability! - ASUS DIGI+ VRM: 6 Phase digital power design Superb performance UEFI BIOS - Most advanced options with fast response time ASUS Fan Xpert 4 Core - Advanced fan and liquid controls for ultimate cooling and quietness Gaming Scenario Audio Features - Audio that roars on the battlefield ASUS Exclusive Features - ASUS AI Charger - ASUS File Transfer - ASUS AI Suite 3 - ASUS PC Cleaner Easy PC DIY Safe motherboard mounting - Component-free areas to minimize damage risk Q-Design - ASUS Q-DIMM - ASUS Q-Slot UEFI BIOS EZ Mode - featuring friendly graphics user interface - ASUS CrashFree BIOS 3 - ASUS EZ Flash 3</p>
ASUS Quiet Thermal Solution	<p>Quiet Thermal Design: - Stylish Fanless Design: MOS Heat-sink & Chipset Heat-sink solution - ASUS Fan Xpert 4 core</p>
Back Panel I/O Ports	<p>1 x PS/2 Keyboard/Mouse Combo port 1 x DVI port 1 x HDMI 2.0 port 1 x LAN (RJ-45) port 2 x USB 3.1 Gen 2 (up to 10 Gbps) ports(Type A, teal blue) 1 x USB 3.1 Gen 1 (up to 5 Gbps) port (Type C) 2 x USB 3.1 Gen 1 (up to 5 Gbps) ports(Type A, blue) 2 x USB 2.0/1.1 ports 3 x Audio jacks support 8-channel audio output</p>
Internal I/O Connectors	<p>1 x USB 3.1 Gen 1 (up to 5Gbps) connector supports additional 2 USB 3.1 Gen 1 ports 2 x USB 2.0/1.1 connectors support additional 4 USB 2.0/1.1 ports 6 x SATA 6.0 Gb/s connectors 1 x M.2 Socket 3 for M Key, type 2242/2260/2280 devices support(both SATA & PCIe mode) 1 x COM connector 1 x Aura RGB Strip header 1 x CPU Fan connector 3 x 4-pin Chassis Fan connectors for both 3-pin(DC mode) and 4-pin(PWM mode) coolers control 1 x Front panel audio connector 1 x 24-pin EATX Power connector 1 x 8-pin EATX 12V Power connector 1 x 2-pin Clear CMOS 1 x System Panel connector 1 x SPDIF out header 1 x AIO pump header</p>
BIOS	128 Mb Flash ROM, UEFI AMI BIOS, PnP, SM BIOS 3.1, ACPI 6.1, Multi-language BIOS, ASUS EZ Flash 3, ASUS CrashFree BIOS 3, F3 My Favorite, Last Modified log, F12 PrintScreen, F4 AURA ON/OFF, F9 Search and ASUS DRAM SPD (Serial Presence Detect) memory information
Manageability	WOL by PME, PXE
Accessories	<p>2 x Serial ATA 6.0Gb/s cables 1 x I/O shield 1 x M.2 screw package 1 x User's manual 1 x Support DVD</p>
Support DVD	<p>Drivers ASUS Utilities ASUS Update Anti-virus software (OEM version)</p>
Operating System	Windows® 10 (64-bit)
Form Factor	ATX Form Factor, 12" x 9.2" (30.5cm x 23.4cm)