MB-AB450TPG

Asus Tuf B450-Plus Gaming B450 Chipset AMD Ryzen AM4 Socket Motherboard

Product Overview

Asus Tuf B450-Plus Gaming B450 Chipset AMD Ryzen AM4 Socket Motherboard, 4 x DIMM, Max. 64GB, DDR4 3200(O.C.)/3000(O.C.)/2800(O.C.)/2666/2400/2133 MHz Un-buffered Memory, 1 x PS/2 keyboard/mouse combo port(s), 1 x DVI-D, 1 x HDMI, 1 x LAN (RJ45) port(s), 1 x 5Gb/s port(s) USB Type-C, 2 x USB 3.1 Gen 2 (teal blue)Type-A, 2 x USB 3.1 Gen 1 (blue) Type-A, 2 x USB 2.0, 3 x Audio jack(s), 1 x Aura RGB Strip Header, 1 x USB 3.1 Gen 1(up to 5Gbps) connector(s) support(s) additional 2 USB 3.1 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), 6 x SATA 6Gb/s connector(s), 1 x CPU Fan connector(s) (1 x 4 -pin), 3 x Chassis Fan connector(s) (3 x 4 -pin), 1 x AIO_PUMP connector (1 x 4 -pin), 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, ATX Form Factor, 30.5 cm x 24.4 cm



Specifications

Features:

Arm Your Battlestation
TUF Gaming motherboards are specially designed and tested to survive and thrive in conditions where other boards would struggle. Engineered with highly durable components, these motherboards deliver unwavering stability for gaming sessions that last as long as you demand. When you build with a TUF Gaming motherboard, you also benefit from the TUF Gaming Alliance - an ASUS collaboration with trusted industry partners that ensures easier building, the best compatibility, and complementary aesthetics from components to case.

Easy PC DIY Experience
TUF Gaming motherboards offer easy and safe DIY builds by leveraging great design, innovative engineering, and strong partnerships with major component manufacturers. The unrivalled combination of military-grade TUF Components, TUF Protection and the TUF Gaming Alliance means that you can rest assured that your gaming rig will go the distance.

TUF gaming alliance
TUF Gaming Alliance is the marque of collaboration between ASUS and major PC-component manufacturers, including trusted brands like Antec®, Apacer®, Ballistix, Cooler Master®, Corsair®, Deepcool, Enermax, G.Skill, GeIL®, In Win, Scythe, SilverStone, Team Group and XPG. A growing range of compliant parts, from PC chassis and power supplies to CPU coolers and DRAM, guarantee both compatibility and aesthetic harmony. We're also continually increasing our partnerships to make the TUF Gaming Alliance ever stronger.

Protect your graphics card investment
SafeSlot is the PCIe slot reinvented by ASUS and engineered to provide superior retention and shearing resistance. Manufactured in a single step using a new insert-molding process, SafeSlot integrates fortifying metal for an inherently stronger slot, which is then firmly anchored to the PCB through additional solder points.

Electrostatic discharge protection
ESD Guards prolong the life of components while preventing damage from electrostatic discharge, providing protection for up to +/- 10kV of air discharge and +/- 6kV of contact discharge - greatly surpassing the respective industry standards of +/- 6kV and +/- 4kKV

LAN port
ESD TVS diode protection on the LAN Circuit.

Keyboards and mouse connectors
Additional on-circuit ESD transient-voltage-suppression.

VGA Protection
Additional on-circuit ESD TVS diodes to protect D-Sub functionality.

USB connectors
TVS diode for surface-mount and dual-inline package.

Precision control for stable power
The Digi+ VRM voltage-regulator module (VRM) is one of the finest in the industry, ensuring ultra-smooth and ultra-clean power delivery to the CPU at all times.

Short-circuit damage prevention
Onboard resettable fuses prevent overcurrent and short-circuit damage. This extends beyond I/O ports to DRAM to safeguard the lifespan of your system and connected devices.

3X-better corrosion resistance
TUF's corrosion-resistant stainless-steel back I/O panels are bonded with chromium oxide - so they can endure a 72-hour salt-spray test, compared to the industry standard of just 24 hours.

TUF CHOKES
Certified military-grade TUF chokes deliver rock-steady power to the CPU, helping to improve system stability.

TUF CAPACITORS
+20% temperature tolerance and 5X-longer lifespan.

TUF MOSFETs
Certified military-grade MOSFETs with lower RDS(on)*.

Best surge protection
TUF LANGuard is a military-grade innovation that integrates advanced signal-coupling technology and premium surface-mounted capacitors to improve throughput, protecting the motherboard from lightning strikes and static electricity.

GPU Temperature Sensing
System temperatures are key to a stable gaming rig - especially GPU temperatures. TUF Gaming motherboards include Fan Xpert 4 Core software that's able to intelligently control system fans based upon the input of multiple sensors, including the temperature of ASUS graphics cards*. This ensures that your TUF Gaming system stays perfectly cooled, no matter how long you play.

Fan Xpert 4 Core
TUF B450-PLUS Gaming features the most comprehensive fan controls ever, configurable via Fan Xpert 4 Core and our award-winning UEFI BIOS.

Multiple temperature sources
With Fan Xpert 4 Core you're able to control system fans based on inputs from up to three temperature sources. For example, Fan Xpert 4 Core can be set to spin up the chassis fans in response to the GPU temperature. So, when the gaming action heats up, additional cooling kicks in - just when you most need it. Choose your temperature sources and thresholds, from motherboard and CPU to GPU, and leave Fan Xpert 4 Core to do the rest.

All-in-one water-cooling set
Enables full control of PWM or DC water pumps, perfect for both custom and self-contained cooling setups.

4-pin PWM/DC fan
Every onboard header supports auto-detection of PWM or DC fans.

Smart protection
A dedicated integrated circuit protects each fan header from over-temperature and overcurrent.

DDR4 SUPPORT
TUF Gaming motherboards are subjected to stringent tests to ensure they're ready for any gaming environment. That foundation is backed by extensive validation lists that include memory kits for a range of budgets. Whether you're building a gaming PC that hits the performance sweet spot or aiming for sensible specs, it's easy to pick the right kit for your TUF Gaming rig.

DTS CUSTOM FOR GAMING HEADSETS
Hone your battleskills with exclusive DTS Custom onboard audio. Utilizing advanced emulation techniques to create positional cues via stereo headphones, DTS Custom takes onboard audio to a new frontier. With three presets - Aerial, Soundscape, and Tactical - for different genres, you'll have a distinct advantage in every game.

Soundscape Mode
The ideal audio envelope for MMO, RPG, action and horror games - your ears will put you in the center of the action!

Aerial Mode
Experience audio as though hovering above the game world, with sound coming from ahead - perfect for MOBA, RTA, strategy and sports titles!

Tactical Mode
Shhh - is that an enemy just around the corner? DTS Custom emphasises detail for stealthy play, so you'll detect and locate every footstep!

Shielded Audio, Superior Sound
Intelligent design and premium hardware create audio quality unlike anything you've ever experienced!

Aura Sync
A well-tuned system deserves a matching aesthetic. ASUS Aura offers full RGB lighting control with a variety of functional presets for the built-in RGB LEDs as well as strips connected to the onboard RGB headers. And it can all be synced with an ever-growing portfolio of Aura-capable hardware.

Native 10Gbps USB 3.1 Gen 2 Type-A Support
With dual backward-compatible USB 3.1 Gen 2 Type-A, you'll experience ultimate connection flexibility and blazing data-transfer speeds of up to 10Gbps - or twice as fast as USB 3.1 Gen 1.

Speed Up with Onboard M.2
With x4 PCI Express® 3.0 bandwidth, M.2 supports up to 32Gbps data-transfer speeds. It's the perfect choice for an operating system or application drive, making your PC and apps work as fast as possible.

Affordable acceleration for any hard drive
AMD StoreMI technology is a software utility that accelerates any drive for better system responsiveness with reduced startup and software load times. It combines SSD performance with the affordability and capacity of an HDD by automatically moving frequently accessed data to dedicated SSD storage.

AM4 socket for AMD Ryzen™ 2nd Generation / Ryzen™ with Radeon™ VEGA Graphics / Ryzen™ 1st Generation Processors
The AMD Ryzen™ processor is based on the innovative Zen core architecture and features up to eight cores and Radeon™ Vega integrated graphics. Together with dual-channel DDR4 memory, native 5Gbps USB 3.1 Gen 1 and 16 PCI Express® 3.0/2.0 lanes, these AMD AM4-socket processors deliver superb computing performance.

AMD B450 chipset
The AMD B450 chipset delivers high performance and flexibility with the latest AMD® AM4-socket Ryzen™ processors. It offers AMD StoreMI storage acceleration technology and provides two 10Gbps USB 3.1 ports, two USB 3.0 ports, and four 6Gbps SATA ports for faster data retrieval.

Specifications:

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Specifications	
Product Code	MB-AB450TPG
CPU	AMD AM4 Socket AMD Ryzen 2nd Generation/Ryzen with Radeon Vega Graphics/Athlon with Radeon Vega Graphics/Ryzen 1st Generation Processors
	Supports CPU up to 8 cores
Chipset	AMD B450
Memory	AMD Ryzen 2nd Generation/ Ryzen with Radeon Vega Graphics/ Athlon 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.
Graphic	Integrated Graphics in the AMD Ryzen with Radeon Vega Graphics/ Athlon with Radeon Vega Graphics Processors
	Multi-VGA output support : HDMI/DVI-D ports
	- Supports HDMI 2.0b with maximum resolution of 4096 x 2160 @ 60 Hz
	- Supports DVI-D with max. resolution 1920 x 1200 @ 60 Hz
Multi-GPU Support	Supports AMD CrossFireX Technology

Expansion Slots	AMD Ryzen 2nd Generation/ Ryzen 1st Generation Processors
	1 x PCIe 3.0/2.0 x16 (x16 mode)
	AMD Ryzen with Radeon Vega Graphics Processor
	1 x PCIe 3.0/2.0 x16 (x8 mode)
	AMD Athlon with Radeon Vega Graphics Processors
	1 x PCIe 3.0/2.0 x16 (x4 mode)
	AMD B450 chipset
	1 x PCIe 2.0 x16 (max at x4 mode)
	3 x PCIe 2.0 x1
Storage	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 storage devices support (SATA & PCIE 3.0 x 4 mode)
	AMD 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)
	AMD Ryzen 2nd Generation/ Ryzen with Radeon Vega Graphics/ Athlon with Radeon Vega Graphics/ Ryzen 1st Generation 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
	TUF LANGuard
Audio	Realtek ALC887-VD2 8-Channel High Definition Audio CODEC
	Audio Feature :
	- Exclusive DTS Custom for GAMING Headsets.
	- Audio Shielding: Ensures precision analog/digital separation and greatly reduced 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-made audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity
	- Audio Cover: Effective shielding preserves the integrity of audio signals to ensure best quality.

USB Ports	AMD Ryzen 2nd Generation/ Ryzen with Radeon Vega Graphics/ Athlon with Radeon Vega Graphics/ Ryzen 1st Generation Processors :
	2 x USB 3.1 Gen 1 port(s) (2 at back panel, Type-A)
	AMD Ryzen 2nd Generation/ Ryzen with Radeon Vega Graphics/ Athlon with Radeon Vega Graphics/ Ryzen 1st Generation Processors :
	1 x USB 3.1 Gen 1 port(s) (1 at back panel, USB Type-C)
	AMD B450 chipset :
	2 x USB 3.1 Gen 2 port(s) (2 at back panel, Type-A)
	AMD B450 chipset :
	2 x USB 3.1 Gen 1 port(s) (2 at mid-board)
	AMD B450 chipset :
	6 x USB 2.0 port(s) (2 at back panel, 4 at mid-board)

Special Features	ASUS TUF PROTECTION
	- ASUS SafeSlot: Protect your graphics card Investment
	- ASUS ESD Guard: Enhanced ESD protection
	- 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
	AURA :
	- Aura Lighting Control
	- Aura RGB Strip Headers
	ASUS Exclusive Features :
	- AI Suite 3
	- Ai Charger
	- PC Cleaner
	- File Transfer
	ASUS Quiet Thermal Solution :
	- Stylish Fanless Design Heat-sink solution & MOS Heatsink
	- ASUS Fan Xpert 4 Core
	ASUS EZ DIY :
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	- ASUS UEFI BIOS EZ Mode
	ASUS Q-Design :
	- ASUS Q-Shield
	- ASUS Q-Slot
	- ASUS Q-DIMM
	Overclocking Protection :
	- ASUS C.P.R.(CPU Parameter Recall)
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 5Gb/s port(s) USB Type-C
	2 x USB 3.1 Gen 2 (teal blue)Type-A
	2 x USB 3.1 Gen 1 (blue) Type-A
	2 x USB 2.0
	3 x Audio jack(s)

Internal I/O Ports	1 x Aura RGB Strip Header
	1 x USB 3.1 Gen 1(up to 5Gbps) connector(s) support(s) additional 2 USB 3.1 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)
	6 x SATA 6Gb/s connector(s)
	1 x CPU Fan connector(s) (1 x 4 -pin)
	3 x Chassis Fan connector(s) (3 x 4 -pin)
	1 x AIO_PUMP connector (1 x 4 -pin)
	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
Accessories	User's manual
	ASUS Q-Shield
	2 x SATA 6Gb/s cable(s)
	1 x M.2 Screw Package
	1 x Supporting DVD
	1 x TUF GAMING Sticker
	1 x TUF Certification card(s)
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
Operating System	Windows 10 64-bit
	Windows 7 64-bit
Form Factor	ATX Form Factor
	12.0 inch x 9.6 inch (30.5 cm x 24.4 cm)

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx.co.za/MB-AB450TPG-Asus-Tuf-B450-Plus-Gaming-B450-Chipset-AMD-Ryzen-AM4-Socket-Motherboard-p-209426.php

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