

	B450MHC 6.x • • Support AMD Ryzen CPU / APU • AMD B450 single chip architecture • Support 2-DIMM DDR4-1866/ 2133/ 2400/ 2667/ 2933/ 3200(OC) • Support Realtek Gigabit LAN • Support USB 3.1 Gen1 • Support HDMI, VGA Ports
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Chipset	• AMD B450
CPU SUPPORT	• AMD A-series APU / Ryzen CPU / NPU for Socket AM4 • Maximum CPU TDP (Thermal Design Power) : 105Watt
MEMORY	• Support Dual Channel DDR4 1866/ 2133/ 2400/ 2667/ 2933/ 3200(OC) MHz • 2 x DDR4 DIMM Memory Slot • Max. Supports up to 32GB Memory • Each DIMM supports non-ECC 8/16 GB DDR4 module
STORAGE	• 4 x SATA3 Connectors (6Gb/s) : Supports AHCI & RAID 0, 1, 10
LAN	• Realtek RTL8111H - 10/100/1000Mb/s Controller
CODEC	• Realtek ALC887 7.1-Channel Audio
USB	• 6 x USB 3.1 Gen1 Ports (5Gb/s) (4 on rear I/Os and 2 via internal headers) • 6 x USB 2.0 Port(2 on rear I/Os and 4 via internal headers)
EXPANSION SLOT	• 1 x PCI-E 3.0 x16 Slot

	• 2 x PCI-E 2.0 x1 Slots
REAR I/O	• 1 x PS/2 Keyboard/Mouse • 4 x USB 3.1 Gen1 (5Gb/s) Ports • 2 x USB 2.0 Ports • 1 x HDMI Connector ,resolution up to 4096 x 2160@24Hz, compliant with HDMI 1.4 • 1 x VGA Port ,resolution up to 1920 x 1200 @60Hz • 1 x LAN port • 3 x Audio Jacks
INTERNAL I/O	• 1 x USB 3.1 Gen1 Header (5Gb/s) (each header supports 2 USB 3.1 Gen1 ports) • 2 x USB 2.0 Headers (each header supports 2 USB 2.0 ports) • 4 x SATA3 6Gb/s Connectors • 1 x Front Audio Header • 1 x Front Panel Header • 1 x CPU Fan Connector • 1 x System Fan Connector • 1 x 8-Pin Power Connector • 1 x 24-Pin Power Connector • 1 x Clear CMOS Header • 1 x COM Port Header
DIMENSION	• Micro ATX Form Factor Dimension: 19.754cm x 24.395cm (W x L)
OS SUPPORT	• Support Windows 7(64bit) / 10(64bit) • ※Biostar reserves the right to add or remove support for any OS with or without notice.
ACCESSORIES	• 2 x SATA Cable • 1 x I/O Shield • 1 x DVD Driver

- 1 x Quick Guide

Audio+

HD Audio

Provides high quality sound with minimal loss of audio fidelity.



Video+

DX12

DirectX 12 introduces the next version of Direct3D, the graphics API at the heart of DirectX. Direct3D is one of the most critical pieces of a game or game engine, and we've redesigned it to be faster and more efficient than ever before. Direct3D 12 enables richer scenes, more objects, and full utilization of modern GPU hardware.



Integrated HDMI with HDCP

Onboard HDMI connector allows full video & audio support. It has industry-leading high definition video quality.



Speed+

USB 3.1 Gen 1 Type-A

Experience Fastest data transfers at 5 Gbps with USB 3.1 Gen 1--the new latest connectivity standard. Built to connect easily with next-generation components and peripherals, USB 3.1 Gen 1 transfers data 10X faster and backward compatible with previous USB 2.0 components.



SmartSpeedLAN

SmartSpeedLAN is a free software application which monitors and manages your PC's network behavior. With user-friendly GUI, it allows you to select and prioritize different types of network traffic, including gaming, media streaming, communications or web surfing. You can also set any specific applications, choosing to prioritize or block accordingly. SmartSpeedLAN can feature automatic management options that use adaptive networking intelligence to ensure that you are getting the best online experience possible.



SATAIII 6Gbps

SATAIII 6Gbps provides a higher bandwidth to retrieve and transfer HD media. With this super speed data transfer, SATAIII allows an incredible data boost which is 2x faster than the SATA 3G.



Protection+

ESD Protection

ESD (Electrostatic Discharge) is the major factor to destroy PC by electrical overstress(EOS) condition, ESD occurred by PC users when touch any devices connect to PC, which may result in damage to motherboard or parts .ESD protection is designed to protect the motherboard and equipment from damage by EOS



USB Polyswitch

On board dedicated power fuse to help prevent USB port failure. It prevents USB Port overcurrent and safeguard your system and device lifespan.



OC / OV / OH Protection

All BIOSTAR special circuit design detects overvoltage conditions and prevents voltage surges from spreading in real time. It also actively cuts off the overvoltage supply to protect your system. Over current



protection, avoid motherboard from damage when doing overclock or an unusual current import. Over heat protection, avoid motherboard & CPU from burning when exceeding the temperature limitation.	
BullGuard Internet Security (90 days FREE trial) BullGuard Internet Security comes with the broadest line-up of internet security features on the market, including: a cutting-edge dual Antivirus engine, Online Backup for your precious files, PC Tune Up to speed up your system, a Game Mode for a seamless gaming experience, Parental Control, Firewall, Safe Browsing and many more. Make the most of your digital life with Bullguard!	

DIY+

BIO-Flasher Update BIOS effortlessly from a USB flash disk before entering the OS. BIO-Flasher is a convenient BIOS update tool. Just launch this tool and put the BIOS on USB pen driver before entering the OS. You can update your BIOS with only a few clicks without preparing an additional floppy disk or other complicated flash utility.	
eHot-Line Utilitiy Integrated e-service automatically sends your technical support request to Biostar Globe tech support without any delay.	
BIOScreen Utility Personalize your desktop with customizable boot logo. BIOScreen is the new feature that lets you personalize and create your own style with unique, custom-made boot logo.	

CPU-Chipset Features

AMD B450 chipset

AMD B450 is the high-end chipset for overclockers and tweakers who need robust platforms. This chip provides the ultimate low-level control to its users and delivers ultimate graphics card bandwidth.

AMD
SOCKET
AM4 | **B450**