

B450MH Motherboard



- Supports AMD Ryzen CPU / APU
- AMD B450 single chip architecture
- Supports 2-DIMM DDR4-1866/ 2133/ 2400/ 2667/ 2933/ 3200(OC) up to 64GB maximum capacity
- Supports Realtek Gigabit LAN
- Supports USB 3.2 Gen1
- Supports PCle M.2
- Supports HDMI

Specifcation	
CPU SUPPORT	Supports AMD AM4 Socket for 3rd, 2nd and 1st Gen Ryzen/2nd and 1st Gen Ryzen with Radeon Vega Graphics/Athlon with Radeon Vega Graphics Processors *Please refer to www.biostar.com.tw for CPU support list.
MEMORY	Support Dual Channel DDR4 1866/ 2133/ 2400/ 2667/ 2933/ 3200(OC) MHz 2 x DDR4 DIMM Memory Slot, Max. Supports up to 64GB Memory Each DIMM supports non-ECC 8/16/32 GB DDR4 module *Please refer to www.biostar.com.tw for Memory support list.
INTEGRATED VIDEO	By CPU model Supports DX12 Supports HDCP
STORAGE	4 x SATA III Connectors (6Gb/s): Supports AHCI & RAID 0, 1, 10 1 x M.2 (M Key) Socket: Supports PCIe (32Gb/s) & SATA III (6Gb/s) SSD (Ryzen series - Summit Ridge / Pinnacle Ridge / Raven Ridge) Supports SATA III (6Gb/s) SSD (A-series APU - Bristol Ridge)
LAN	Realtek RTL8111H - 10/100/1000Mb/s Controller Support Super LAN Surge Protection
AUDIO CODEC	ALC887 7.1 Channels, High Definition Audio
USB	6 x USB 3.2 Gen1 ports (4 on rear I/Os and 2 via internal headers) 6 x USB 2.0 ports (2 on rear I/Os and 4 via internal headers)
EXPANSION SLOT	2 x PCle 2.0 x1 Slots 1 x PCle 3.0 x16 Slot (When using APU, the bandwidth is x8 speed)

1 x PS/2 Keyboard/Mouse		
A x SATA III Connectors (6Gb/s) 1 x USB 3.2 Gen1 (5Gb/s) Header (each header supports 2 USB 3.2 Gen1 ports) 1 x Front Audio Header 1 x Front Panel Header 1 x CPU Fan Connector 1 x System Fan Connector 1 x S-Pin Power Connector 1 x S-Pin Power Connector 1 x Clear CMOS Header 1 x COM Port Header 1 x COM Port Header 2 x COM Port Header 3 x COM Port Header 4 x COM Port Header 5 x COM Port Header 6 x COM Port Header 6 x COM Port Header 7 x Clear CMOS Header 8 x COM Port Header 9 x COM Port Header 1 x COM Port Header 1 x COM Port Header 2 x STATA Cable 1 x I/O Shield 1 x DVD Driver 1 x Quick Guide 1 x Qui	REAR I/O	4 x USB 3.2 Gen1 (5Gb/s) Ports 2 x USB 2.0 Ports 1 x HDMI Port 1 x VGA Port 1 x LAN Port
H/W MONITORING CPU / System Fan Monitoring Smart / Manual CPU Fan Control CPU/DDR Voltage Monitoring DIMENSION Micro ATX Form Factor Dimension: 19.8cm x 24.4cm (W x L) Supports Windows 10(64bit) / 11(64bit) Windows 7(64bit) for Bristol Ridge/ Summit Ridge/ Pinnacle Ridge only7(64bit) / 10(64bit) **Biostar reserves the right to add or remove support for any OS with or without notice. BUNDLE SOFTWARE BUIlGuard Smart Speed LAN 2 x SATA Cable 1 x I/O Shield 1 x DVD Driver 1 x Quick Guide FEATURES	INTERNAL I/O	4 x SATA III Connectors (6Gb/s) 1 x USB 3.2 Gen1 (5Gb/s) Header (each header supports 2 USB 3.2 Gen1 ports) 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
Supports Windows 10(64bit) / 11(64bit) Windows 7(64bit) for Bristol Ridge/ Summit Ridge/ Pinnacle Ridge only7(64bit) / 10(64bit) *Biostar reserves the right to add or remove support for any OS with or without notice. BUNDLE SOFTWARE BullGuard Smart Speed LAN 2 x SATA Cable 1 x I/O Shield 1 x DVD Driver 1 x Quick Guide FEATURES	H/W MONITORING	CPU / System Fan Monitoring Smart / Manual CPU Fan Control
OS SUPPORT Windows 7(64bit) for Bristol Ridge/ Summit Ridge/ Pinnacle Ridge only7(64bit) / 10(64bit) *Biostar reserves the right to add or remove support for any OS with or without notice. BUNDLE SOFTWARE BUIlGuard Smart Speed LAN 2 x SATA Cable 1 x I/O Shield 1 x DVD Driver 1 x Quick Guide FEATURES	DIMENSION	Micro ATX Form Factor Dimension: 19.8cm x 24.4cm (W x L)
ACCESSORIES Smart Speed LAN	OS SUPPORT	Windows 7(64bit) for Bristol Ridge/ Summit Ridge/ Pinnacle Ridge only7(64bit) / 10(64bit) *Biostar reserves the right to add or remove support for any OS with or without
ACCESSORIES 1 x I/O Shield 1 x DVD Driver 1 x Quick Guide FEATURES	BUNDLE SOFTWARE	
	ACCESSORIES	1 x I/O Shield 1 x DVD Driver
	FEATURES	10-

OVERVIEW	
SOCKET B450	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.
HD AUDIO	HD Audio Provides high quality sound with minimal loss of audio fidelity.
HDMI	HDMI 4K2K The new 4K2K resolution enables high-definition image display with four times the resolution of full HD, 4K2K display is faithfully express bright, highly detailed content that fills the entire screen with lifelike images. Connectivity with PCs via a single HDMI cable for displaying 4K2K data.



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.



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.



PCIe M.2

PCIe M.2 32Gb/s delivers the highest bandwidth and lower latency. It is 3 times faster compared with PCIe M.2 10Gb/s.



PCle 3.0

PCIe 3.0 is the ubiquitous and general-purpose PCI Express I/O standard. At 8GT/s bit rate, the interconnect performance bandwidth is doubled over PCIe 2.0, while preserving compatibility with software and mechanical interfaces.



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 II.



USB 3.2 Gen1 Type-A

USB 3.2 Gen1 delivers a compelling performance boosts and can be used to connect multiple devices without worrying about compatibility. It is capable of data transfer speeds up to 5Gbps and backwards compatible with all existing USB products.



OC TWEAKER

OC TWEAKER is the process of adjusting performance settings to optimize system functionality and ensure reliable operation.

By increasing the computer is processing speed and GPU frame rates (FPS), it enables the system to handle demanding tasks more effectively, thereby improving user satisfaction.



Super LAN Surge Protection

Super LAN Surge Protection, providing LAN port with more advanced antistatic protection capabilities by adding an integrated chip to strengthen electrical stability and prevent damage from lightning strikes and electrical surges. SLSP (Super LAN Surge Protection) series motherboard upgrades the existing system protection standards with maximum 4X protection comparing to other board makers.



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*The specification and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!

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