B550MH 6.0

- Supports AMD 3rd RyzenTM (Matisse/ Renoir) processors
- AMD B550 single chip architecture
- Supports 2-DIMM DDR4-4933+(OC)/4800(OC)/4600(OC)/4400(OC)/4000(OC)/3800(OC)/3600(OC)/3200(OC)/2933/2667/2400/2133/1866
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- Supports USB 3.2 Gen1
- Supports PCIe M.2 4.0 (64Gb/s)
- Supports HDMI 4K resolution
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Chipset	- AMD B550
CPU SUPPORT	- Socket AM4 support AMD 3rd Gen Ryzen™ (Matisse/ Renoir) processors - Support for future AMD Ryzen processors with BIOS update - * Please refer to www.biostar.com.tw for CPU support list. -
MEMORY	- 3rd Gen AMD Ryzen Processors (Matisse CPUs) - Support for DDR4 4400+(OC) / 4000(OC) / 3800(OC) / 3600(OC) / 3200(OC) / 2933 / 2667 / 2400 / 2133 / 1866 - 3rd Gen AMD Ryzen with Radeon Graphics Processors (Renoir APUs) - Support for DDR4 4933+(OC) / 4800(OC) / 4600(OC) / 4400(OC) / 4000(OC) / 3800(OC) / 3600(OC) / 3200(OC) / 2933 / 2667 / 2400 / 2133 / 1866 - 2 x DDR4 DIMM Memory Slot, Max. Supports up to 64 GB Memory - Each DIMM supports non-ECC 8/ 16/ 32 GB DDR4 module

	• * DDR4 - 2667 only for Ryzen CPU. • * 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 Connector (6Gb/s) : Supports AHCI & RAID 0, 1, 10 • 1 x M.2 (M Key) Socket: • Supports M.2 Type 2242/ 2260/ 2280 SSD module • Supports PCIe 4.0 x 4 (64Gb/s)/ 3.0 x 4 (32Gb/s) - NVMe/ AHCI SSD • Supports SATA III (6.0Gb/s) SSD • * M.2 (M Key) Socket (M2_PCIe-SATA1): • The bandwidth is depended on CPU. • Supports PCIe 4.0 x 4 (64Gb/s) speed, which depends only on • Ryzen 3rd Gen Matisse. •
LAN	• Realtek RTL8111H • 10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability • Supports Super LAN Surge Protection •
AUDIO CODEC	• ALC887 • 7.1 Channels, High Definition Audio, Hi-Fi (Front) •
USB	• 8 x USB 3.2 (Gen1) ports (4 on rear I/Os and 4 via internal headers) • 6 x USB 2.0 ports (2 on rear I/Os and 4 via internal headers) •
EXPANSION SLOT	• 1 x PCIe 4.0/ 3.0 x 16 Slot: • Supports PCIe 4.0 x 16 mode with AMD Ryzen™ processors.

	(Matisse only)
	• Supports PCIe 3.0 x 16 mode AMD Ryzen™ with Radeon Vega Graphics processors. (Renoir only)
	• 2 x PCIe 3.0 x 1 Slot
	• * According to different CPUs will have different speeds.
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REAR I/O	• 1 x PS/2 Keyboard
	• 1 x PS/2 Mouse
	• 1 x HDMI Port
	• 1 x VGA Port
	• 1 x LAN port
	• 4 x USB 3.2 (Gen1) Ports
	• 2 x USB 2.0 Ports
	• 3 x Audio Jack
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INTERNAL I/O	• 4 x SATA III (6.0Gb/s) Connectors
	• 2 x USB 2.0 Header (each header supports 2 USB 2.0 ports)
	• 2 x USB 3.2 (Gen1) Header (each header supports 2 USB 3.2 (Gen1) ports)
	• 1 x 8-Pin Power Connector
	• 1 x 24-Pin Power Connector
	• 1 x CPU Fan Connector
	• 1 x System Fan Connector
	• 1 x Front Panel Header
	• 1 x Front Audio Header
	• 1 x Clear CMOS Header
	• 1 x Internal Stereo Speaker Header
	• 1 x COM Port Header
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![BIOSTAR logo](www.biostar.com.tw)

H/W MONITORING	• CPU / System Temperature Monitoring • CPU / System Fan Monitoring • Smart / Manual CPU Fan Control • System Voltage Monitoring
DIMENSION	• Micro ATX Form Factor Dimension: 24.4cm x 20.8cm (W x L)
OS SUPPORT	• Supports Windows 10(64bit) • ※Biostar reserves the right to add or remove support for any OS with or without notice
BUNDLE SOFTWARE	• • • BullGuard
ACCESSORIES	• 2 x SATA Cable • 1 x I/O Shield • 1 x DVD Driver • 1 x Quick Guide
FEATURES	• Supports 100% Solid capacitor • Supports A.I FAN • PCI-E M.2 4.0

CPU-Chipset Features

AMD B550 chipset

AMD B550 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.It also supports PCI-E Gen4 bandwidth

B550

Audio+

HD Audio

Provides high quality sound with minimal loss of audio fidelity.

Hi-Fi Ground

BIOSTAR Hi-Fi Ground (Golden Line) is noise-blocking multi-layer PCB design to isolates analog audio signals from digital sources. Unique PCB layout is ideal for exceptional clarity and high fidelity sound.

Video+

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.

Speed+

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.

Dual DDR4

The primary advantages of DDR4 over DDR3, include higher module density, lower voltage requirements, coupled with higher data transfer rate.

PCI-E 4.0

PCI-E 4.0 is the next evolution of the ubiquitous and general-purpose PCI Express I/O standard. At 16GT/s bit rate, the interconnect performance bandwidth is doubled over PCI-E 3.0, while preserving compatibility with software and mechanical interfaces.

PCI-E M.2 4.0

PCI-e M.2 4.0 is the latest storage interface, it delivers the highest bandwidth and lower latency. It's 2 times faster compared with PCI-e M.2 3.0.

USB 3.2 Gen1 Type-A

USB 3.2 Gen1 delivers 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.

Durable+

Super Durable Ferrite Choke

Super Durable Ferrite Choke brings the benefits of higher current capacity, lower energy loss and better power stability.

Super Durable Solid Caps

The best quality solid state capacitors with ultra low ESR design, the Super Durable Solid Caps doubles the lifespan.

Moistureproof PCB

The popularity of PC usage and working environment is getting deteriorating and moist(rural, coastal, etc.). The PCB will be oxidizing easily by damp or absorbed moisture, and ionic migration or CAF (Conductive Anodic Filament) will be generated. Moisture-proof PCB meets high density and high reliability requirements for moisture proof.

Moistureproof PCB

100% Solid Caps

With armor-plated Biostar Technology, all capacitors are placed with 100% solid capacitors that have a lasting life cycle, durability and stability for crucial components.

100% SOLID CAPACITOR Stable,Lifespan++

Protection+

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.

SUPER-LAN SURGE-PROTECTION

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.

OVER Current / Voltage / Heat Protection

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+

UEFI BIOS

Unified Extensible Firmware Interface (UEFI) is a brand new framework that provides a revolutionary interface. It is a modern clear and easy-to-use graphical user interface. The UEFI comes with a colorful easy-understand icons leads users into the setup layer directly.

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.

A.I FAN

With A.I FAN users can ensure that their gaming PC can maintain its performance while staying cool. According to different cooling needs and usage scenarios, users can control speed modes. Allows users to have more customizability of fan modes and automatically detects different temperatures to make fan operate at defined speed for optimal cooling performance. Furthermore, A.I FAN support both PWM and DC voltage fans for more cooling options.