

## B550MT Motherboard



- Socket AM4 support AMD Ryzen™ 3rd Gen (Matisse/ Renoir) and Ryzen™ 4th Gen (Vermeer/ Cezanne) processors
- AMD B550 single chip architecture
- Supports 2-DIMM DDR4 up to 64 GB Memory
- Supports Realtek Gigabit LAN
- Supports Front USB 3.2 Gen2 Type-C
- Supports M.2 (64Gb/s)
- Supports HDMI 4K resolution

### Specification

CPU SUPPORT	Socket AM4 support AMD Ryzen™ 3rd Gen (Matisse/ Renoir) and Ryzen™ 4th Gen (Vermeer/ Cezanne) processors Support for future AMD Ryzen processors with BIOS update * Please refer to <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> for CPU support list.
MEMORY	4th Gen AMD Ryzen Processors (Vermeer CPUs): Supports Dual Channel DDR4 4400+(OC)/ 4000(OC)/ 3800(OC)/ 3600(OC)/ 3200/ 2933/ 2667/ 2400/2133 4th Gen AMD Ryzen with Radeon Graphics Processors (Cezanne APUs): Supports Dual Channel DDR4 4933+(OC)/ 4800(OC)/ 4600(OC)/ 4400(OC)/ 4000(OC)/ 3800(OC)/3600(OC)/ 3200/ 2933/ 2667/ 2400/ 2133 3rd Gen AMD Ryzen Processors (Matisse CPUs): Supports Dual Channel DDR4 4400+(OC)/ 4000(OC)/ 3800(OC)/ 3600(OC)/ 3200/ 2933/ 2667/ 2400/2133 3rd Gen AMD Ryzen with Radeon Graphics Processors (Renoir APUs): Supports Dual Channel DDR4 4933+(OC)/ 4800(OC)/ 4600(OC)/ 4400(OC)/ 4000(OC)/ 3800(OC)/3600(OC)/ 3200/ 2933/ 2667/ 2400/ 2133 2 x DDR4 DIMM Memory Slot, Max. Supports up to 64 GB Memory Each DIMM supports non-ECC 8/ 16/ 32 GB DDR4 module * Please refer to <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> for Memory support list.
INTEGRATED VIDEO	By CPU model Supports DX12 Supports HDCP





STORAGE	<p>Total supports 1 x M.2 socket and 4 x SATA III (6Gb/s) ports  1 x M.2 (M Key) Socket (M2M_CPU):  Supports M.2 Type 2242/ 2260/ 2280 SSD module  AMD Ryzen 5000/3000 Series Processors  Supports PCIe 4.0 x 4 (64Gb/s) &amp; SATA III (6.0Gb/s) SSD  AMD Ryzen 5000 G/4000 G Series Processors  Supports PCIe 3.0 x 4 (32Gb/s) &amp; SATA III (6.0Gb/s) SSD  AMD B550 Chipset  4 x SATA III Connectors (6Gb/s) : Supports AHCI &amp; RAID 0, 1, 10  * M.2 (M2M_CPU) Socket: The bandwidth is depended on CPU. Supports PCIe 4.0 x 4 (64Gb/s) speed, which depends only on Ryzen 3rd Gen Matisse &amp; 4th Gen Vermeer.</p>
LAN	<p>Realtek RTL8111H  10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability</p>
AUDIO CODEC	<p>ALC897  7.1 Channels, High Definition Audio, Hi-Fi (Front)</p>
USB	<p>1 x USB 3.2 (Gen2) Type-C port (1 via internal headers)  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)</p>
EXPANSION SLOT	<p>AMD Ryzen 5000/3000 Series Processors  1 x PCIe 4.0 x16 Slot (x16 or x4/x4/x4/x4 mode)  or  AMD Ryzen 5000 G/4000 G Series Processors  1 x PCIe 3.0 x16 Slot (x16 or x8/x4/x4 mode)  AMD B550 Chipset  2 x PCIe 3.0 x1 Slot  * According to different CPUs will have different speeds.</p>
REAR I/O	<p>1 x DP Port  1 x HDMI Port  1 x LAN port  4 x USB 3.2 (Gen1) Ports  2 x USB 2.0 Ports  3 x Audio Jack</p>
INTERNAL I/O	<p>4 x SATA III (6.0Gb/s) Connectors  2 x USB 2.0 Header (each header supports 2 USB 2.0 ports)  1 x USB 3.2 (Gen1) Header (each header supports 2 USB 3.2 (Gen1) ports)  1 x USB 3.2 (Gen2) Type-C Header  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 Internal Stereo Speaker Header  1 x Clear CMOS Header  1 x COM Port Header  1 x TPM Header</p>
H/W MONITORING	<p>CPU / System Temperature Monitoring  CPU / System Fan Monitoring  Smart / Manual CPU Fan Control  CPU/DDR Voltage Monitoring</p>
DIMENSION	<p>Micro ATX Form Factor Dimension: 23.5cm x 20.8cm ( W x L )</p>
OS SUPPORT	<p>Supports Windows 10(64bit)/ 11(64bit)  *Biostar reserves the right to add or remove support for any OS with or without notice.</p>
BUNDLE SOFTWARE	<p>BullGuard</p>

ACCESSORIES	2 x SATA Cable 1 x I/O Shield 1 x DVD Driver 1 x Quick Guide
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## OVERVIEW

	<p><b>AMD B550 chipset</b></p> <p>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.</p>
	<p><b>HD Audio</b></p> <p>Provides high quality sound with minimal loss of audio fidelity.</p>
	<p><b>Hi-Fi Ground</b></p> <p>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.</p>
	<p><b>HDMI 4K2K</b></p> <p>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.</p>
	<p><b>DisplayPort</b></p> <p>DisplayPort is a digital display interface developed by the Video Electronics Standards Association (VESA). The interface is primarily used to connect a video source to a display device such as a computer monitor, though it can also be used to carry audio.</p>
	<p><b>DX12</b></p> <p>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.</p>
	<p><b>PCIe M.2</b></p> <p>PCIe M.2 32Gb/s delivers the highest bandwidth and lower latency. It is 3 times faster compared with PCIe M.2 10Gb/s.</p>
	<p><b>PCIe 3.0</b></p> <p>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.</p>

	<h3>SATAIII 6Gbps</h3> <p>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.</p>
	<h3>Dual DDR4</h3> <p>The primary advantages of DDR4 over DDR3, include higher module density, lower voltage requirements, coupled with higher data transfer rate.</p>
	<h3>PCIe 4.0</h3> <p>PCIe 4.0 is the ubiquitous and general-purpose PCI Express I/O standard. At 16GT/s bit rate, the interconnect performance bandwidth is doubled over PCIe 3.0, while preserving compatibility with software and mechanical interfaces.</p>
	<h3>PCIe 4.0 M.2</h3> <p>PCIe 4.0 M.2 delivers the highest bandwidth and lower latency. It is 2 times faster compared with PCIe 3.0 M.2 .</p>
	<h3>USB 3.2 Gen1 Type-A</h3> <p>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.</p>
	<h3>Super Durable Solid Caps</h3> <p>The best quality solid state capacitors with ultra low ESR design, the Super Durable Solid Caps doubles the lifespan.</p>
	<h3>Moistureproof PCB</h3> <p>The PCB will be oxidizing easily by damp or absorbed moisture, and ionic migration or CAF (Conductive Anodic Filament) will be generated. Moistureproof PCB meets high density and high reliability requirements for moisture proof.</p>
	<h3>OC / OV / OH Protection</h3> <p>OC / OV / OH Protection 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.</p>
	<h3>UEFI BIOS</h3> <p>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 lead users into the setup layer directly.</p>

	<p><b>BIO-Flasher</b></p> <p>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.</p>
	<p><b>A.I FAN</b></p> <p>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.</p>
	<p><b>Smart Update</b></p> <p>Biostar Smart Update is a utility that can help users run online update. It can download the drivers for your motherboard from Biostar official website and install them automatically.</p>
	<p><b>HDMI</b></p> <p>The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.</p>

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