

## 1.3 Specifications

Specifications	
CPU Support	Socket AM4 support AMD® Ryzen™ 3rd Gen (Matisse/ Renoir) and Ryzen™ 4th Gen (Vermeer/ Future) 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.
Chipset	AMD® B550
Memory	4th Gen AMD Ryzen Processors (Vermeer CPUs/ Future APUs): Supports Dual Channel DDR4 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 4 x DDR4 DIMM Memory Slot, Max. Supports up to 128 GB Memory Each DIMM supports non-ECC and ECC Un-buffered 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.
Storage	-- Total supports 2x M.2 socket and 4 x SATA III (6Gb/s) ports 4x SATA III Connector (6Gb/s) : Supports AHCI & RAID 0, 1, 10 1x M.2 (M Key) Socket (M2_PCI EG4_64G_SATA): Supports M.2 Type 2242/ 2260/ 2280 SSD module Supports PCI-E 4.0 x4 (64Gb/s)/ 3.0 x4 (32Gb/s) - NVMe/ AHCI & SATA III (6.0Gb/s) SSD 1x M.2 (M Key) Socket (M2_PCI EG3_32G_SATA): Supports M.2 Type 2242/ 2260/ 2280 SSD module Supports PCI-E 3.0 x4 (32Gb/s) - NVMe/ AHCI & SATA III (6.0Gb/s) SSD * M.2 (M Key) Socket (M2_PCI EG4_64G_SATA) : The bandwidth is depended on CPU. Supports PCI-E 4.0 x4 (64Gb/s) speed, which depends only on Ryzen 3rd Gen Matisse and 4th Gen Vermeer CPUs.
LAN	Realtek RTL8111H 10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability
Audio Codec	ALC897 7.1 Channels, High Definition Audio, Hi-Fi (Front)
USB	6x USB 3.2 (Gen1) port (4 on rear I/Os and 2 via internal headers) 6x USB 2.0 port (2 on rear I/Os and 4 via internal headers)
Expansion Slots	1x PCIe 4.0/ 3.0 x16 Slot (PCI EG4X16): Supports PCIe 3.0 x16/ 4.0 x16 mode with AMD® Ryzen™ processors. Supports PCIe 3.0 x16 mode AMD® Ryzen™ with Radeon Vega Graphics processors. 1x PCIe 3.0 x16 Slot (PCI EG3X4) : Supports x4 mode 1x PCIe 3.0 x1 Slot (PCI EG3X1) * According to different CPUs will have different speeds. * PCIe 4.0 speed only for AMD® Ryzen™ 3rd Gen Matisse and 4th Gen Vermeer CPUs. * When using PCIe x1 slot (PCI EG3X1), PCIe x16 slot (PCI EG3X4) will be adjusted to x2 lanes.
Rear I/Os	B550MX/E PRO: 2x WIFI Antenna Port 1x PS/2 Keyboard / Mouse 1x DVI-D Port 1x VGA Port 1x HDMI Port 1x LAN port 4x USB 3.2 (Gen1) Port 2x USB 2.0 Port 3x Audio Jack  B550MH/E PRO: 2x WIFI Antenna Port 1x PS/2 Keyboard / Mouse 1x VGA Port 1x HDMI Port 1x LAN port 4x USB 3.2 (Gen1) Port 2x USB 2.0 Port 3x Audio Jack

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Internal I/Os	4x SATA III (6.0Gb/s) Connector 1x M.2 (E Key) Socket : Supports 2230 type Wi-Fi & Bluetooth module 2x USB 2.0 Header (each header supports 2 USB 2.0 ports) 1x USB 3.2 (Gen1) Header (each header supports 2 USB 3.2 (Gen1) ports) 1x 8-Pin Power Connector 1x 24-Pin Power Connector 1x CPU Fan Connector 2x System Fan Connector 1x Front Panel Header 1x Front Audio Header 1x Internal Stereo Speaker Header 1x Clear CMOS Header 1x S/PDIF out Connector 1x COM Port Header 1x TPM Header 1x SYSTEM Status LED * M.2 (E key) Wi-Fi card is not provided
Form Factor	uATX Form Factor, 244 mm x 244 mm
OS Support	Windows 10(64bit) Biostar reserves the right to add or remove support for any OS with or without notice.