



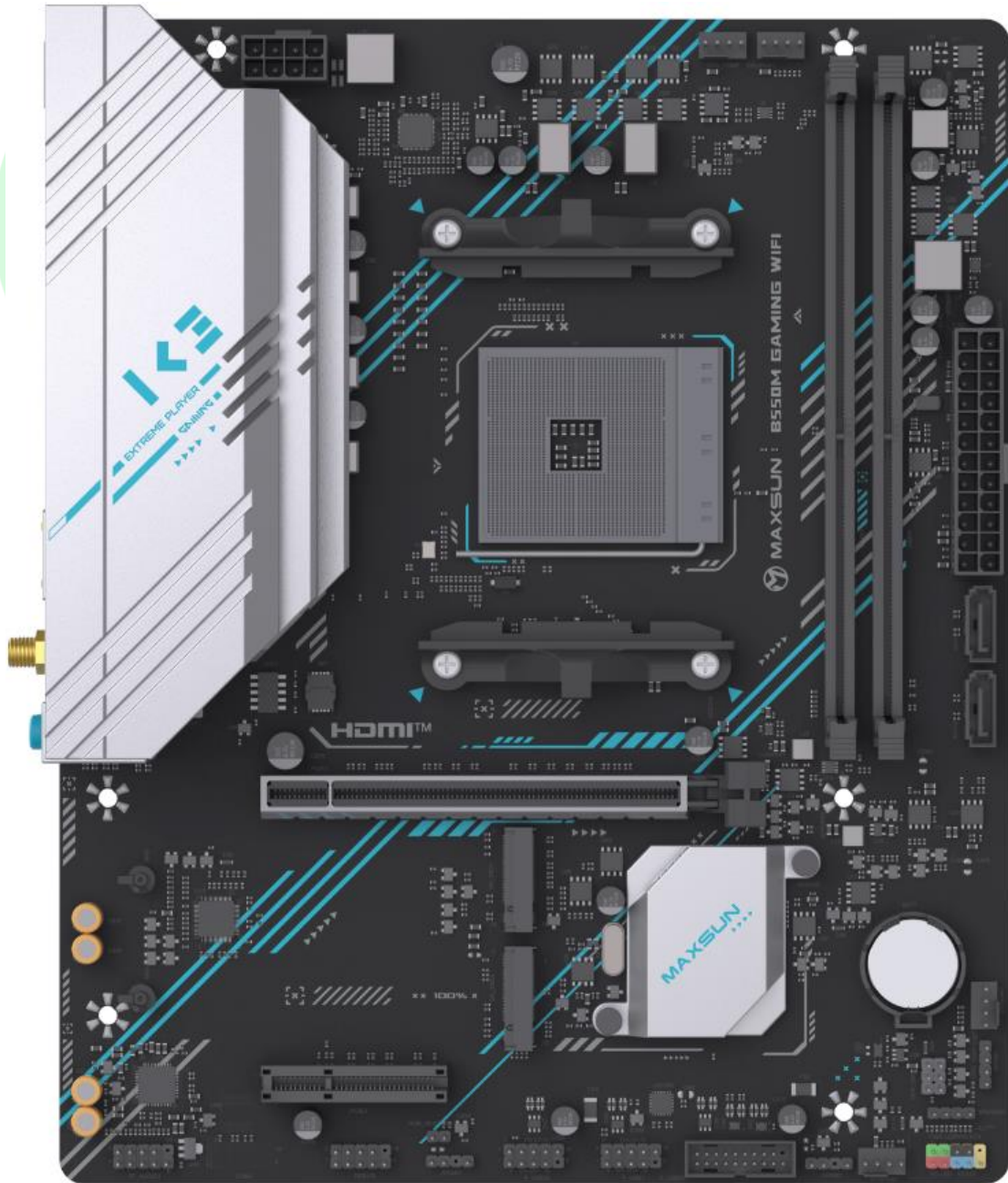
# MS-B550M GAMING WIFI

Specification

VER:A0

Edit time: 2025/03/18

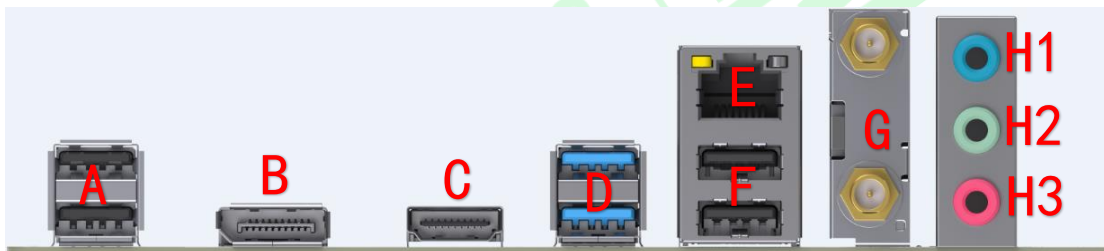
Editorial Department: Overseas Operations Department



(This image is for reference only. Some details may be adjusted according to the actual situation.  
Please refer to the actual product. Our company reserves the right of interpretation)

<b>Size</b>	MicroATX(245*200mm)
<b>CPU</b>	Supports AM4 slots RYZEN1000-5000 CPU(does not support CPU overclocking technology) Ryzen+Radeon 1000-5000 CPU(does not support CPU overclocking technology) TDP: 95W(4+2+1 phase power supply)
<b>Chipset</b>	AMD 550
<b>Memory</b>	2 DIMM DDR4 memory slots Up to 64GB is supported Support dual channel memory technology Support for 3200/2933/2666/2400/2133 MHZ/OC Memeroy frequency of memory
<b>Display</b>	Based on the display function of integrated graphics processor, shared display memory technology is adopted 1 HDMI1.4 interface, maximum support 4096x2160@30Hz resolution 1 DP1.2 interface, maximum support 4096x2160@60Hz resolution
<b>Pcie</b>	1 PCIEX16 4.0 slot 1 PCIEX4 3.0 slot Support AMD, NVIDIA, INTEL independent graphics card Supports PCIE resizable bar technology
<b>Audio</b>	Integrated REALTEK ALC897 sound card chip Support simultaneous output of front and back channels (need to be set in HD audio controller) Rear audio interface: 1 rear on-board LINE IN interface, 1 rear on-board LINE OUT interface, and a rear on-board MIC_IN microphone interface F_AUDIO pins: 1 set of front microphone pins, 1 set of front audio output pins (these 2 pins are F_Audio pins)
<b>Network</b>	Integrated REALTEK 8111M NIC chip (10/100/1000Mbit) 1 onboard RJ45 interface Support network wake-up Support PXE diskless, UEFI diskless boot 1 onboard REALTEK 8821CE wireless card: Wi-Fi 5 and Bluetooth 4.2 support
<b>Storage</b>	Two M.2 slots (M2_SSD1 supports 228 PCIE X4/X2 gen4-channel SSD/SATA drives) (M2_SSD2 supports 228 PCIE X4/X2 gen3-channel SSD) Two SATA3.0 interfaces
<b>USB</b>	On-board rear interface: 2 USB3.2 GEN1 interfaces 4 USB2.0 ports Plate insert needle: 2 USB2.0 pins with 9 pins 1 (16 pin) USB3.2GEN1 pin
<b>In board socket</b>	1 24PIN motherboard ATX power supply interface 1 8PIN motherboard ATX 12V power supply interface with 12V input

	<p>2 sets of system fan pins, 1 set of CPU fan pins, 1 set of Pump pins (only CPU and SYSFAN2 support smart fan speed control)</p> <p>1 set of front control panel pin (F_PANEL)</p>
Hardware monitoring	<p>Voltage monitoring</p> <p>Temperature monitoring</p> <p>Fan monitoring</p> <p>Intelligent fan speed control (supported by the motherboard, intelligent fan speed control also requires fan support)</p>
Operating system	<p>Supports Windows10 64bit, Windows11 64bit</p> <p>Supports Ubuntu 64bit</p>
ESD Protection	<p>Air discharge <math>\pm 8KV</math> C level</p> <p><math>\pm 6KV</math> class B</p> <p>Contact discharge <math>\pm 6KV</math> C level</p> <p><math>\pm 3KV</math> B class</p> <p>* Test the whole machine under the condition of good grounding</p>
Others	<p>2 3pins support anti-freeze 5V ARGB lamp insertion pins</p> <p>1 4PIN 12V NRGB lamp insertion pin</p> <p>1 set of burn inserting needles</p> <p>1 group of clear CLR_CMOS pins</p> <p>1 set of DEBUG pins</p> <p>1 JP_USB1 power supply pin (can control whether the two USB2.0 LAN ports are powered or not)</p>
Size	<p>Color box size: 289*245*65.5mm</p> <p>Net weight: 652.2g</p> <p>Gross weight: 950g</p> <p>Outer box size: 510*302*347mm</p> <p>FCL weight: 10.6kg</p> <p>Packing quantity: 10PCS</p>



A: Double-layer USB2.0 TYPE A interface

It supports up to USB2.0 standard, and can be backward compatible with USB1.1 standard. Used to connect USB TYPE A devices.

B: DP interface

The highest support 4096x2160@60Hz resolution, can support audio and video output at the same time.

C: HDMI interface

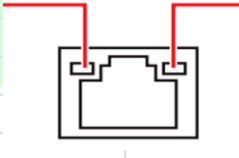
The highest support 4096x2160@60Hz resolution, can support audio and video output at the

same time.

D: Double-layer USB3.2 GEN1 TYPE A interface

It supports up to theoretical 5Gb speed transmission and is compatible with USB1.1 standard for connecting USB TYPE A devices.

E: RJ45 network cable interface, used for access network cable to connect the host system to the network, the maximum bandwidth of 1000Mbps.

Activity Link LED			Speed LED	
Status	Description		Status	Description
Off	No link	Off	10Mbps connection	
Yellow	Linked	Green	100Mbps connection	
Blinking	Data activity	Orange	1000Mbps/2.5Gbps connection	

F: Double-layer USB3.2 GEN1 TYPE A interface

It supports up to theoretical 5Gb speed transmission and is compatible with USB1.1 standard for connecting USB TYPE A devices.

G: WI-FI antenna interface

Built-in REALTEK 8821CE module, Wi-Fi 5 and Bluetooth 4.2 support.

H1: LINE IN interface (blue)

Used to receive audio input devices, such as mobile phone audio input.

H2: Audio-out interface (light green)

Used to access audio output devices, such as headphones, speakers and other external devices.

H3: Audio-Microphone interface (pink)

It is used to access audio input devices such as radio devices such as microphones



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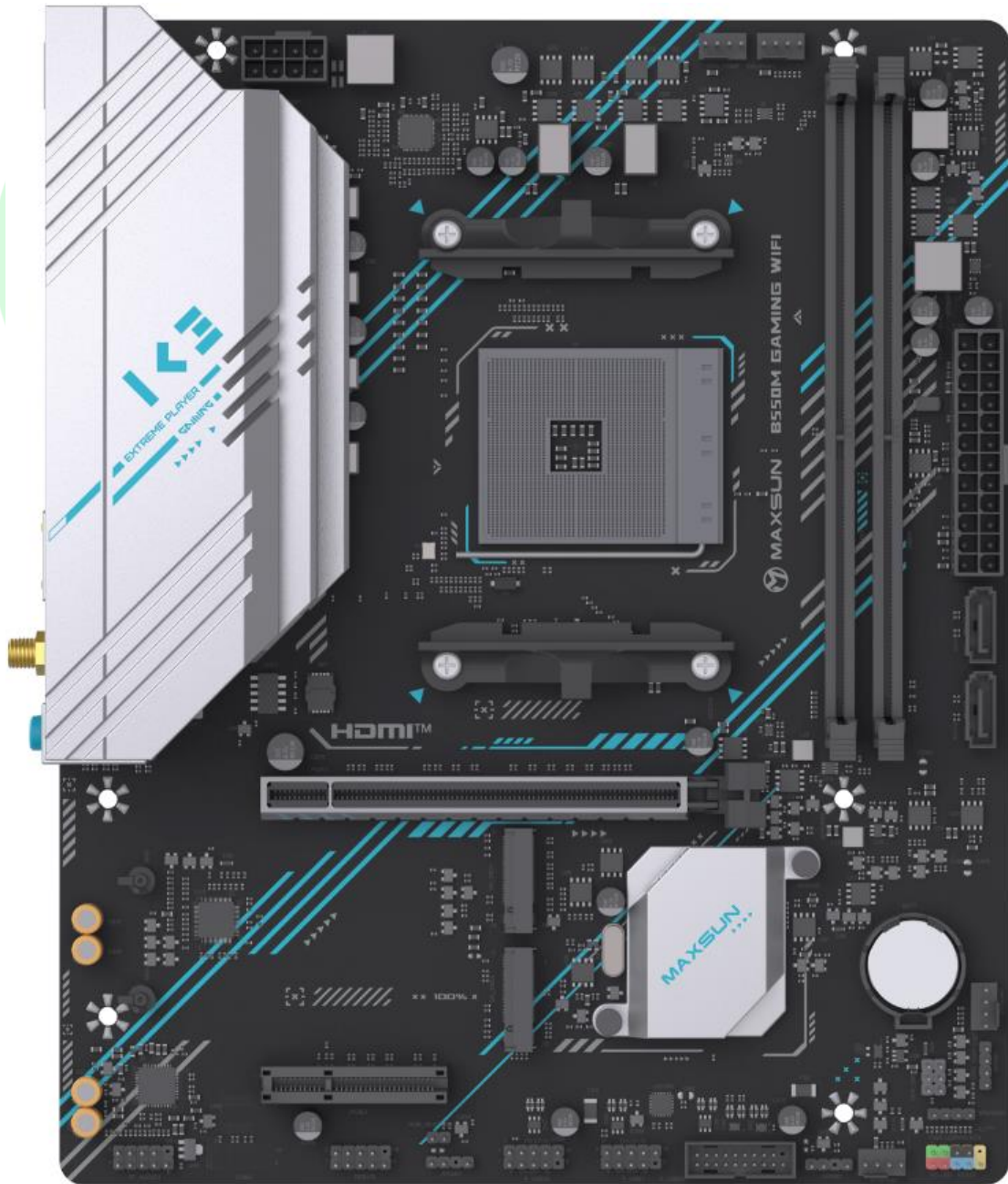
规格书

VER:A0

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# 第一章 主板配置图



(此图仅供参考，部分细节会根据实际情况设计调整，请以实物为准，我司保留解释权)

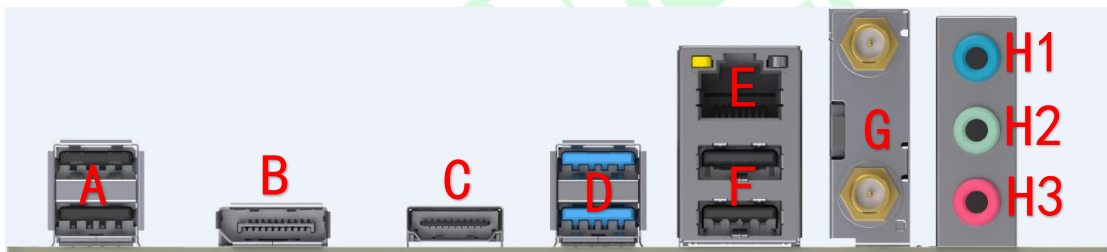
## 第二章 规格

### 2.1、主板硬件规格

主板尺寸	MicroATX(245*200mm)
CPU	支持 AM4 插槽 RYZEN1000-5000 的 CPU(不支持 CPU 超频技术) Ryzen+Radeon 1000-5000 的 CPU(不支持 CPU 超频技术) TDP: 95W(4+2+1 相供电)
芯片组	AMD 550 高速芯片组
内存	2 个 DIMM DDR4 内存槽 最高支持共 64GB 支持双通道内存技术 支持 3200/2933/2666/2400/2133MHz/OC Memeroy 内存频率
显示	基于具备集成显卡处理器的显示功能, 采用共享显示内存技术 1 个 HDMI1.4 接口, 最高支持 4096x2160@30Hz 分辨率 1 个 DP1.2 接口, 最高支持 4096x2160@60Hz 分辨率
扩展接口	1 个 PCIEX16 4.0 插槽 1 个 PCIEX4 3.0 插槽 支持 AMD、NVIDIA、INTEL 独立显卡 支持 PCIe resizable bar 技术
音频	集成 REALTEK ALC897 声卡芯片 支持前后声道同时输出 (需要高清音频控制器中设置) 后置音频接口: 1 个后置板载 LINE IN 接口, 1 个后置板载 LINE OUT 接口, 一个后置板载 MIC_IN 麦克风接口 F_AUDIO 插针: 1 组前置麦克风插针, 1 组前置音频输出插针 (此 2 个插针为 F_Audio 插针组)
网络	集成 REALTEK 8111M 网卡芯片(10/100/1000Mbit) 1 个板载 RJ45 接口 支持网络唤醒 支持 PXE 无盘、UEFI 无盘引导 1 个板载 REALTEK 8821CE 无线网卡:支持 Wi-Fi 5 与 Bluetooth 4.2
存储	2 个 M.2 插槽 (M2_SSD1 支持 228 PCIE X4/X2 Gen4 通道 SSD/SATA 硬盘) (M2_SSD2 支持 228 PCIE X4/X2 Gen3 通道 SSD) 2 个 SATA3.0 接口
USB	板载后置接口: 2 个 USB3.2 GEN1 接口 4 个 USB2.0 接口 板内插针: 2 个 9PIN 的 USB2.0 插针 1 个 (16PIN) USB3.2 GEN1 插针
板内插座	1 个 24PIN 主板 ATX 供电接口 1 个 8PIN 主板 ATX 12V 供电接口, 12V 输入 2 组系统风扇插针、1 组 CPU 风扇插针、1 组 Pump 插针 (仅 CPU 和 SYSFAN2 支持智



	能风扇控速) 1 组机箱前置控制面板插针 (F_PANEL)
硬件监控	电压监测 温度监测 风扇监测 智能风扇控速 (主板已作支持, 智能风扇控速也需风扇支持)
操作系统	支持 Windows10 64bit, Windows11 64bit 支持 Ubuntu 64bit
ESD 防护	空气放电 ±8KV C 级 ±6KV B 级 接触放电 ±6KV C 级 ±3KV B 级 *整机接地良好的情况下测试
其他	2 个 3PIN 支持防呆 5V ARGB 灯插针 1 个 4PIN 12V NRGB 灯插针 1 组烧录插针 1 组清 CLR_CMOS 插针 1 组 DEBUG 插针 1 个 JP_USB1 供电插针(可控制 LAN 口的两个 USB2.0 关机是否带电)
包装尺寸及重量	彩盒尺寸: 289*245*65.5mm 单板重量: 652.2g 单片彩包重量: 950g 外箱尺寸: 510*302*347mm 整箱重量: 10.6kg 装箱数量: 10PCS



A: 双层 USB2.0 TYPE A 接口

最高支持 USB2.0 标准, 可向下兼容 USB1.1 标准。用于连接 USB TYPE A 设备。

B: DP 接口

最高支持 4096x2160@60Hz 分辨率, 可支持声像同时输出。

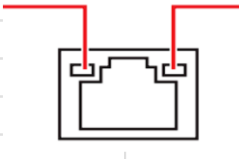
C: HDMI 接口

最高支持 4096x2160@60Hz 分辨率, 可支持声像同时输出。

D: 双层 USB3.2 GEN1 TYPE A 接口

最高支持理论 5Gb 速度传输, 可向下兼容 USB1.1 标准,用于连接 USB TYPE A 设备。

E: RJ45 网线接口, 用于接入网线将主机系统连接到网络, 最高带宽 1000Mbps。

Activity Link LED			Speed LED	
Status	Description		Status	Description
Off	No link		Off	10Mbps connection
Yellow	Linked		Green	100Mbps connection
Blinking	Data activity		Orange	1000Mbps/2.5Gbps connection

F: 双层 USB3.2 GEN1 TYPE A 接口

最高支持理论 5Gb 速度传输, 可向下兼容 USB1.1 标准, 用于连接 USB TYPE A 设备。

G: WI-FI 天线接口

内置了 REALTEK 8821CE 模块, 支持 Wi-Fi 5 与 Bluetooth 4.2。

H1: LINE IN 接口(蓝色)

用于接收音频输入设备, 如手机音频输入。

H2: Audio-out 接口(浅绿色)

用于接入音频输出设备, 如耳机、音箱等外放设备。

H3: Audio-麦克风接口(粉红色)

用于接入音频输入设备, 如麦克风等收音设备。