# MS-eSport H810M GANK WIFI

**Specification**

**Ver: A0**

Edited on 5/20, 2025

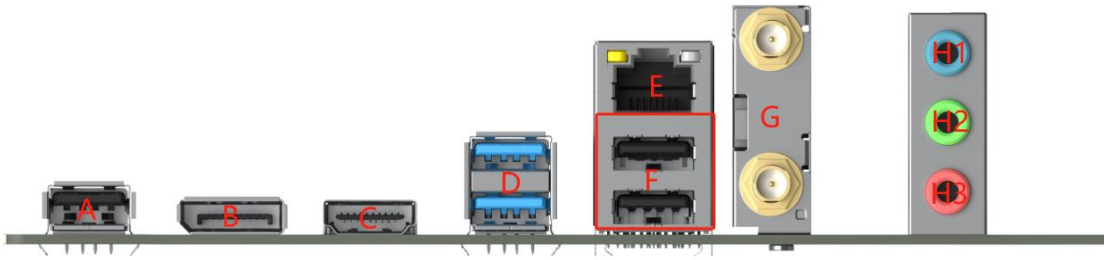
Editing Department: Global Slaes & Marketing Division

(This drawing is for reference only, some details will be adjusted according to the actual situation, please refer to the actual design, our company reserves the right to explain)

| | |
|---|---|
| Model Name | MS-eSport H810M GANK WIFI |
| Form Factor | M-ATX 225mm x 210mm |
| CPU | Intel ® LGA1851 slot for Intel ® Core ™ Ultra processor |
| Chipset | Intel ® H810 chipset |
| Power Limit | Intel Default： PL1:95W PL2:159W TimeWindows：8S<br>Maxsun Profile（Factory Setting）： PL1:120W PL2:150W TimeWindows：8S<br>Performance Profile： PL1:130W PL2:160W TimeWindows：8S |
| Memory (RAM) | 2x DIMM DDR5, maximum capacity 128GB<br>Dual channel memory architecture is supported<br>Supports Intel® Extreme Memory Profile (XMP)<br>Support 6400/5600/4800 MHz does not support ECC Memory |
| Display | 1 x DisplayPort 1.2 display interface, support up to the specified 4K@60Hz<br>1 x HDMI™ 2.0 display interface with maximum 4K@60Hz support<br>* Graphics specifications may vary for different CPU types, see www.intel.com* for more details |
| Extended Interface | From Intel ® Core ™ Ultra processor:<br>1 x PCIe X16 slot (supports PCIe 5.0X16 mode)<br>From Intel ® H810 chipset:<br>1x PCIe X1 slot (supports PCIe 4.0X1 mode) |
| Audio | Realtek ALC1220 HD audio codec<br>Support simultaneous output of front and back channels (need to be set in HD audio controller)<br>The rear is equipped with 3 audio ports:<br>1 rear on-board LINE IN interface,<br>1 rear on-board LINE OUT interface,<br>1 rear on-board MIC_IN microphone interface.<br>F_AUDIO pin:<br>1 set of front microphone pins,<br>1 set of front audio output pins<br>(These two pins are F_Aduio pins) |
| Network | 1 * Realtek® RTL8111M 1G LAN<br>1 * Intel® AX101 Wireless Card: supports Wi-Fi 6 and Bluetooth® v5.2<br>Support network wake-up<br>Support PXE diskless, UEFI diskless boot |
| Storage | A total of 1 * M.2 slots and 2 * SATA 6Gb/s interfaces are supported<br>From Intel ® H810 chipset:<br>M.2_SSD slot (Key_M) : supports PCIe 4.0X4 /X2 mode and supports 2280 lengths<br>2 * SATA 6Gb/s interface |
| USB | Front (4 ports) :<br>1 * USB 5G 19Pin, supports 2 additional USB 5G ports<br>1 * USB 2.0 9Pin, supports 2 additional USB 2.0 ports<br>Rear (5 ports) : |

| | |
|---|---|
| | 2 * USB 5G<br>3 * USB 2.0 |
| I/O Panel | 1 * DisplayPort 1.2<br>1 * HDMI™ 2.0<br>1 * CLR_CMOS button<br>2 * USB 5G<br>3 * USB 2.0<br>1 * RJ45 port<br>1 * Wi-Fi antenna interface<br>3 * Audio jacks |
| Hardware monitoring | Voltage monitoring<br>Temperature monitoring<br>Fan monitoring<br>Intelligent fan speed control (supported by the motherboard, intelligent fan speed control also requires fan support) |
| Operating system | Supports Windows11 64bit<br>It supports Ubuntu 64bit |
| ESD protection | Air discharge ± 8KV C level<br>±4KV class B<br>Contact discharge ± 6KV C level<br>± 4KV class B<br>* Test the whole machine under the condition of good grounding |
| In-board I/O ports | Power related interface<br>1 *24 Pin ATX power connector<br>1 * 8 Pin +12V power connector<br>Fan related interface<br>1 * 4 Pin CPU fan connector<br>2 * 4 Pin case fan connector<br>Storage related interfaces<br>1 * M.2 slots (Key_M)<br>2 * SATA 6Gb/s interface<br>Onboard USB interface<br>1 * USB 5G 19Pin pin, supports 2 additional USB 5G ports<br>1 * USB 2.0 9Pin, supports 2 additional USB 2.0 ports<br>Other interfaces<br>2 * 3 Pin ARGB interface<br>1 * COM port connection pin<br>1 * 4pin Buzzer<br>1 * Front panel audio interface<br>1 * 10-1 Pin system panel interface<br>1 * CLR_CMOS reset pin<br>1 * TPM port connection pin |
| Features | Distributed Debug lights<br>Maxsun Sync lighting control<br>CLR_CMOS shortcut button<br>Resizable bar technique |
| Pakaging specification | Color box size: 265*246*55mm<br>Net weight: 0.59 kg<br>Gross weight: 0.974kg<br>Outer box size: 510*280*300mm<br>FCL weight: 9.74kg |

| | |
|---|---|
| | **Packing quantity: 10PCS** |




A: USB 2.0 Type-A interface

Supports up to USB 2.0 standard, backward compatible with USB 1.1 standard. For connecting USB TYPE A devices.

B: DP interface

The highest support supports the provisions of 4K@60Hz, can support audio and video output at the same time.

C: HDMI interface

The highest support supports the provisions of 4K@60Hz, can support audio and video output at the same time.

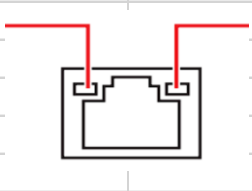
D: Double layer USB 5G Type-A interface

It supports up to 5Gb speed transmission, and is compatible with USB1.1 and USB2.0 standards. It is used to connect 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 | |
|---|---|
| Status | Description |
| Off | No link |
| Yellow | Linked |
| Blinking | Data activity |



| Speed LED | |
|---|---|
| Status | Description |
| Off | 10Mbps connection |
| Green | 100Mbps connection |
| Orange | 1000Mbps/2.5Gbps connection |

F: Double layer USB 2.0 Type-A interface

Supports up to USB 2.0 standard, backward compatible with USB 1.1 standard. For connecting USB TYPE A devices.

G: WiFi antenna interface

The WIFI interface is integrated with Intel ® AX101 wireless network card, which

supports Wi-Fi 6 and Bluetooth® 5.2. The corresponding driver must be installed correctly to use it normally.

H1: Audio-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.

# MS-eSport H810M GANK WIFI

## 规格书

**VER:A0**

编辑时间：2025 年 05 月 20 日
编辑部门：商科集团产品部

# 第一章 主板配置图

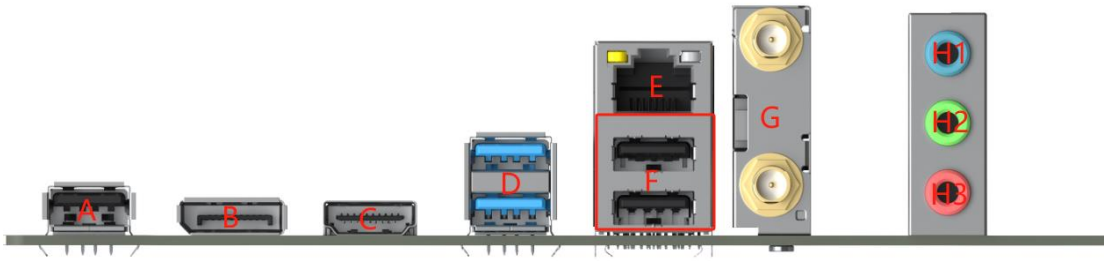
（此图仅供参考，部分细节会根据实际情况设计调整，请以实物为准，我司保留解释权）

# 第二章 规格

## 2.1、主板硬件规格

| | |
|---|---|
| 主板尺寸 | M-ATX 板型<br>225mm x 210mm |
| CPU | 英特尔® LGA1851 插槽，适用于英特尔® 酷睿™ Ultra 处理器 |
| 芯片组 | 英特尔® H810 芯片组 |
| 功耗设定 | 英特尔默认： PL1:95W PL2:159W TimeWindows：8S<br>铭瑄档案（出厂挡位）：PL1:120W PL2:150W TimeWindows：8S<br>性能档案： PL1:130W PL2:160W TimeWindows：8S |
| 内存 | 2x DIMM DDR5，最大容量 128GB<br>支持双通道内存架构<br>支持 Intel® Extreme Memory Profile (XMP)<br>支持 6400/5600/4800 MHz 不支持 ECC Memory |
| 显示 | 1 x DisplayPort 1.2 显示接口，支持规定的最高 4K@60Hz<br>1 x HDMI™ 2.0 显示接口，支持规定的最高 4K@60Hz<br>* 不同类型 CPU 的图形规格可能有所不同，详情请参阅 www.intel.com* |
| 扩展接口 | 来自英特尔® 酷睿™ Ultra 处理器 ：<br>1 x PCIe X16 插槽 (支持 PCIe 5.0 X16 模式)<br>来自英特尔® H810 芯片组 ：<br>1x PCIe X1 插槽(支持 PCIe 4.0 X1 模式) |
| 音频 | Realtek ALC1220 高清音频编解码器<br>支持前后声道同时输出（需要高清音频控制器中设置）<br>后置配备 3 个音频接口：<br>1 个后置板载 LINE IN 接口，<br>1 个后置板载 LINE OUT 接口，<br>1 个后置板载 MIC_IN 麦克风接口。<br>F_AUDIO 插针：<br>1 组前置麦克风插针，<br>1 组前置音频输出插针<br>（此 2 个插针为 F_Aduio 插针组） |
| 网络 | 1 * Realtek RTL8111M 1Gb Ethernet 接口<br>1 *英特尔® AX101 无线网卡 ： 支持 Wi-Fi 6 与 Bluetooth® 5.2<br>支持网络唤醒<br>支持 PXE 无盘、UEFI 无盘引导 |
| 存储 | 共支持 1 * M.2 插槽 和 2 * SATA 6Gb/s 接口<br>来自英特尔® H810 芯片组 ：<br>M.2_SSD 插槽 (Key_M)：支持 PCIe 4.0 X4/X2 模式，支持 2280 长度<br>2 * SATA 6Gb/s 接口 |
| USB | 板载 USB (共 4 个接口) ：<br>1 * USB 5G 19Pin 接针，支持 2 个额外的 USB 5G 接口<br>1 * USB 2.0 9Pin 接针，支持 2 个额外的 USB 2.0 接口 |

| | |
|---|---|
| | 后置 USB (共 5 个接口) ：<br>2 * USB 5G Type-A 接口<br>3 * USB 2.0 Type-A 接口 |
| 后置面板 I/O 设备接口 | 1 * DisplayPort 1.2<br>1 * HDMI™ 2.0<br>1 * CLR_CMOS 快捷按钮<br>2 * USB 5G Type-A 接口<br>3 * USB 2.0 Type-A 接口<br>1 * Realtek 1Gb Ethernet 接口<br>1 * Wi-Fi 天线接口<br>3 * 音频插孔 |
| 硬件监控 | 电压监测<br>温度监测<br>风扇监测<br>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 Windows11 64bit<br>支持 Ubuntu 64bit |
| ESD 防护 | 空气放电 ± 8KV C 级<br>±4KV B 级<br>接触放电 ± 6KV C 级<br>± 4KV B 级<br>*整机接地良好的情况下测试 |
| 内置 I/O 设备接口 | 电源相关接口<br>1 *24 Pin ATX 电源连接器<br>1* 8 Pin +12V 电源连接器<br>风扇相关接口<br>1 * 4 Pin CPU 风扇接头<br>2 * 4 Pin 机箱风扇接头<br>存储相关接口<br>1 * M.2 插槽（Key_M）<br>2 * SATA 6Gb/s 接口<br>板载 USB 接口<br>1 * USB 5G 19Pin 接针，支持 2 个额外的 USB 5G 接口<br>1 * USB 2.0 9Pin 接针，支持 2 个额外的 USB 2.0 接口<br>其他接口<br>2 * 3 Pin ARGB 接口<br>1 * COM 端口接针<br>1 * 4pin Buzzer 蜂鸣器插针<br>1 * 前面板音频接口<br>1 * 10-1 Pin 系统面板接口<br>1 * CLR_CMOS 重置接针<br>1 * TPM 端口接针 |
| 特有功能 | 分布式 Debug 灯<br>Maxsun Sync 灯光控制<br>CLR_CMOS 快捷按钮<br>Resizable bar 技术 |
| 包装尺寸及重量 | 彩盒尺寸：265*246*55mm<br>单板重量：0.59 kg<br>单片彩包重量：0.974kg<br>外箱尺寸：510*280*300mm<br>整箱重量：9.74kg<br>装箱数量：10PCS |




A：USB 2.0 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

最高支持支持规定的 4K@60Hz，可支持声像同时输出。

C：HDMI 接口

最高支持支持规定的 4K@60Hz，可支持声像同时输出。

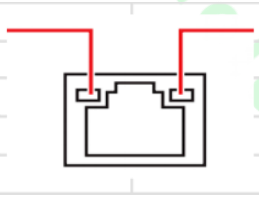
D：双层 USB 5G Type-A 接口

最高支持理论 5Gb 速度传输，可向下兼容 USB1.1、USB2.0 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。

| 运行指示灯 | |
|---|---|
| 状态 | 描述 |
| 关闭 | 无链接 |
| 黄色 | 已链接 |
| 闪烁 | 数据传输 |



| 速度指示灯 | |
|---|---|
| 状态 | 描述 |
| 关闭 | **10Mbps** 连接 |
| 绿色 | **100Mbps** 连接 |
| 橙色 | **1.0/2.5/5.0Gbps** 连接 |

F：双层 USB 2.0 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。

G：WiFi 天线接口

WIFI 接口内部集成了英特尔® AX101 无线网卡，支持 Wi-Fi 6 与 Bluetooth® 5.2 需要正确安装相应的驱动程序才能正常使用。

H1: Audio-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。

铭瑄科技 Maxsun Technology