

MS-Challenger B760M D5 WIFI

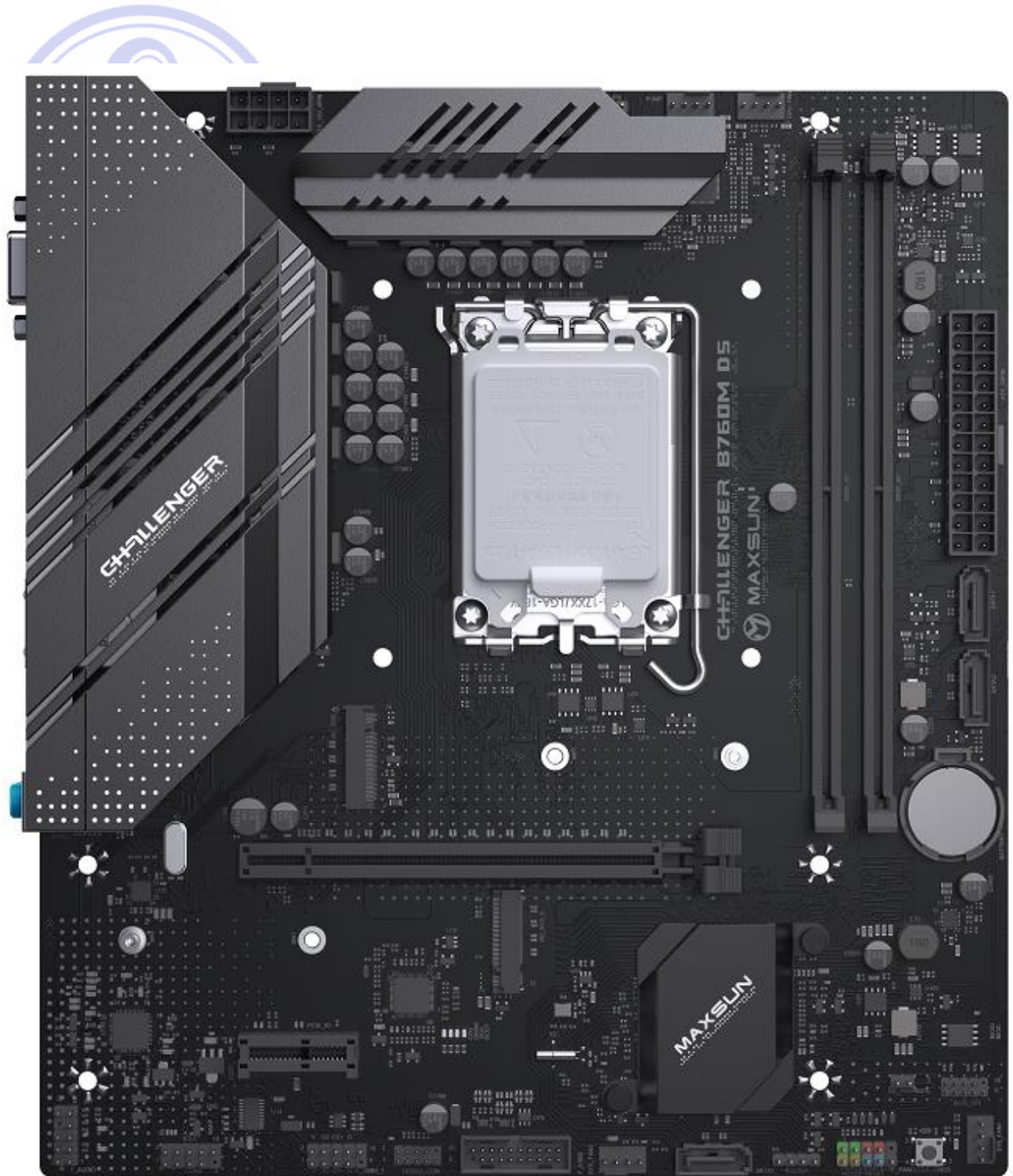
Manual

VER :A0

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Chapter 1 Motherboard configuration diagram



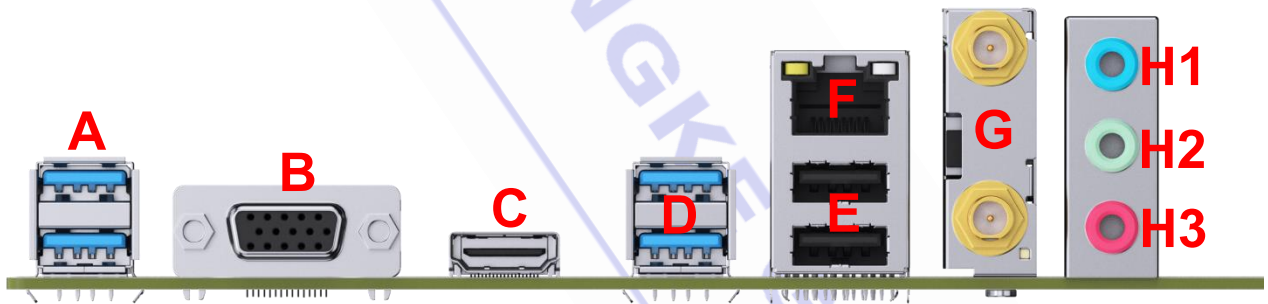
(This drawing is for reference only, and some details will be designed and adjusted according to the actual situation.
Please take the physical object, and our company reserves the right of interpretation)

Chapter 2 Specifications

2.1. Motherboard hardware specifications

Motherboard size	Micro ATX (230*205mm)
CPU	Support for LGA1700 slots 12th Gen processor, 13th Gen processor (no CPU overclocking technology) TDP: 125W (8 + 1 + 1)
Chipset	Intel ® B760 High-speed chipset
Memory	2x DIMM DDR5 memory slots Maximum support total is 96GB Support for dual-channel memory technology Supports 4800 MHz / OC Memory frequency
Display	Shared display memory technology based on display capabilities with integrated graphics processor 1x HDMI port, with support of up to 2560 * 1440@60Hz resolution (HDMI 1.4 version) 1x VGA port with maximum support of 1920 * 1080@60Hz resolution
Extended slot	1x PCIE X16 4.0 slot, 1x PCIE X1 3.0 slot AMD and NVIDIA and INTEL graphics cards are supported Support for PCIE resizable bar technology
Audio	Integrated ALC897 sound chip Supports the simultaneous output of the front and rear sound channels Rear audio port: 1x rear on-board LINE IN port, 1x rear on-board LINE OUT port, and 1x rear on-board MIC_IN microphone port F_AUDIO pin: 1x set of front microphone pin and 1x set of front audio output pin 1x set of 4-pin speaker BUZZER pins
Network	Integrated REALTEK 8111 Network Card chip (10 / 100 / 1000Mbit) 1x onboard RJ45 port, 1x AX211 wireless network Support network wakeup Support PXE no disk, UEFI no disk guide
Storage	2x M.2 4.0 Slot (only support 2242 / 2280 PCIE X4 / X2 channel SSD) 3x SATA 3.0 port
USB	Onboard rear ports: 4x USB3.2 GEN1 ports, 2x USB2.0 ports On-board pins: 1x set (2) USB2.0 pins, 1x set (2) USB3.2 GEN1 pins
Inside board socket	1x 24-PIN motherboard ATX power supply 1x 8-PIN motherboard ATX 12V power supply, 12V input 1x COM_A pin 2x groups of system fan pins, 1x group of CPU fan pins, 1x group of PUMP fan pins (Supports Smart Fan Adjustment except PUMP pins) 1x set of CLR_CMOS button

	1x Debug pin 1x BIOS Burn-in pins 1x ME protection pin 1x 12V NRGB pin and 2x 5V ARGB pins 1x group chassis front control panel pin (F_PANEL)
Hardware monitoring	Voltage monitoring Temperature monitoring Fan monitoring Intelligent fan speed control (motherboard has been supported, the intelligent fan speed control also needs fan support)
Operating system	Support for Windows 10 64bit, Windows 11 64bit Support for Ubuntu 64bit
ESD protect	Air discharge ± 8 KV Class C ± 6 KV of grade B Contact discharge is ± 6 KV Class C ± 3 KV Grade B * Test of the whole machine under good grounding
Packaging size and weight	Box size: 265 * 246 * 55mm Single-board weight: 609.2g Weight of single color package: 921g Size of the outer box: 510 * 280 * 300mm Box weight: 10.1kg



A: Double-layer USB3.2 GEN1 TYPE A port

Up to support theoretical 5Gb speed transmission, downward compatible with USB1.1 standard, for connecting USB TYPE A devices.

B: VGA port

Up to 1920 * 1080@60Hz resolution support for connecting the display.

C: HDMI port

Up to 2560 * 1440@60Hz resolution (HDMI 1.4 version) is support for connecting the display.

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

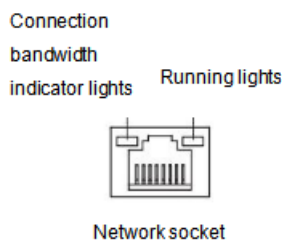
Up to support theoretical 5Gb speed transmission, downward compatible with USB1.1 standard, for connecting USB TYPE A devices.

E: Double-layer USB2.0 TYPE A port

Up to the USB2.0 standard support, downward compatible with the USB1.1 standard. For connecting to the USB TYPE A devices.

F: RJ45 port

Network cable port, used to access the network cable to link the host system to the network, with a maximum bandwidth of 1000M bps.



Connect the bandwidth indicator light	
tape width	The lamp state
Connection-less	go out
10M bps	Green is always bright
100M bps	Green is always bright
1000M bps	Orange is always bright

Run the indicator light	
No data transmission	go out
In data transmission	twinkle

G: WI-FI antenna port (external screw and internal needle)

WI-FI wireless network antenna connector, onboard AX211 WI-FI6E wireless network, can be sent along with the WIFI antenna installed here.

H1: LINE IN port (blue)

For receiving audio input devices, such as mobile phone audio input.

H2: Audio-out port (light green)

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

H3: Audio-Microphone port (pink)

For accessing audio input devices, such as microphone and other radio devices.

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使用手册

VER: A0

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第一章 主板配置图



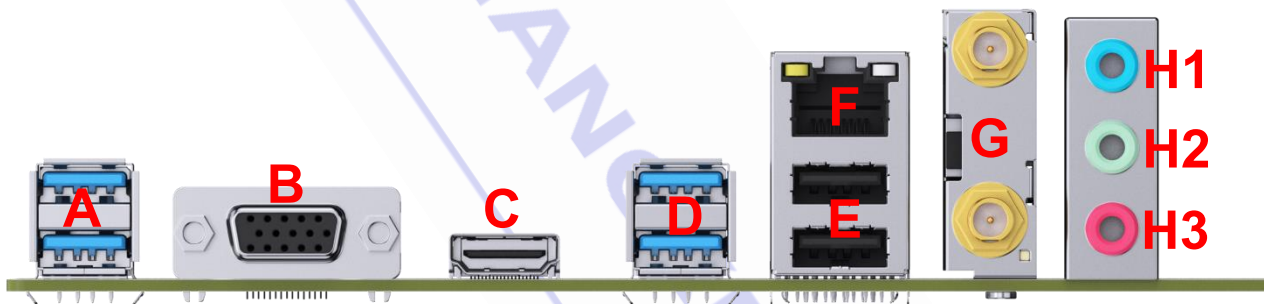
(此图仅供参考，部分细节会根据实际情况设计调整，请以实物为准，我司保留解释权)

第二章 规格

2.1、主板硬件规格

主板尺寸	MicroATX (230*205mm)
CPU	支持 LGA1700 插槽 第 12 代处理器、第 13 代处理器、第 14 代处理器 (不支持 CPU 超频技术) TDP: 125W (8+1+1 项)
芯片组	Intel®B760 高速芯片组
内存	2 个 DIMM DDR5 内存槽 最高支持共 96GB 支持双通道内存技术 支持 4800MHZ/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 HDMI 接口, 最高支持 2560*1440@60Hz 分辨率 (HDMI1.4 版本) 1 个 VGA 接口, 最高支持 1920*1080@60Hz 分辨率
扩展接口	1 个 PCIEX16 4.0 插槽, 1 个 PCIEX1 3.0 插槽 支持 AMD 和 NVidia 和 INTEL 独立显卡 支持 PCIE resizable bar 技术
音频	集成 ALC897 声卡芯片 支持前后声道同时输出 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) 1 组 4pin 喇叭 BUZZER 插针
网络	集成 REALTEK8111 网卡芯片 (10/100/1000Mbit) 1 个板载 RJ45 接口, 1 个 AX 211 无线网卡 支持网络唤醒 支持 PXE 无盘、UEFI 无盘引导
存储	2 个 M.2 4.0 插槽 (紧支持 2242/2280 PCIE X4/X2 通道 SSD) 3 个 SATA3.0 接口
USB	板载后置接口: 4 个 USB3.2 GEN1 接口, 2 个 USB2.0 接口 板内插针: 1 组 (2 个) USB2.0 插针, 1 组 (2 个) 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 1 个 COM_A 插针 2 组系统风扇插针、1 组 CPU 风扇插针、1 组 PUMP 风扇插针 (除 PUMP 插针外都支持智能风扇调节) 1 组 CLR_CMOS 按钮 1 个 Debug 插针 1 个 Bios 烧录插针

	1 个 ME 保护插针 1 个 12V NRGB 插针, 2 个 5V ARGB 插针 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 $\pm 8KV$ C 级 $\pm 6KV$ B 级 接触放电 $\pm 6KV$ C 级 $\pm 3KV$ B 级 *整机接地良好的情况下测试
包装尺寸及重量	彩盒尺寸: 265*246*55mm 单板重量: 609.2g 单片彩包重量: 921g 外箱尺寸: 510*280*300mm 整箱重量: 10.1kg



A: 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。

B: VGA 接口

最高支持 1920*1080@60Hz 分辨率, 用于连接显示器。

C: HDMI 接口

最高支持 2560*1440@60Hz 分辨率 (HDMI1.4 版本), 用于连接显示器。

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: 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。

F: RJ45 接口

网线接口，用于接入网线将主机系统链接到网络，最高带宽 1000Mbps。



连接带宽指示灯	
带宽	灯状态
无连接	灭
10Mbps	绿色常亮
100Mbps	绿色常亮
1000Mbps	橙色常亮

运行指示灯	
无数据传输	灭
数据传输中	闪烁

G: WI-FI 天线接口（外螺内针）

WI-FI 无线网卡天线公头接口，板载 AX211 WI-FI6E 无线网卡，可将随赠 WIFI 天线安装至此处。

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。