

# MS-Terminator B760M GKD5 ICE

**Manual**

**VER:A0**

Edited on 6/18, 2024

Editing Department: Technology Department

## Part 1 Layout



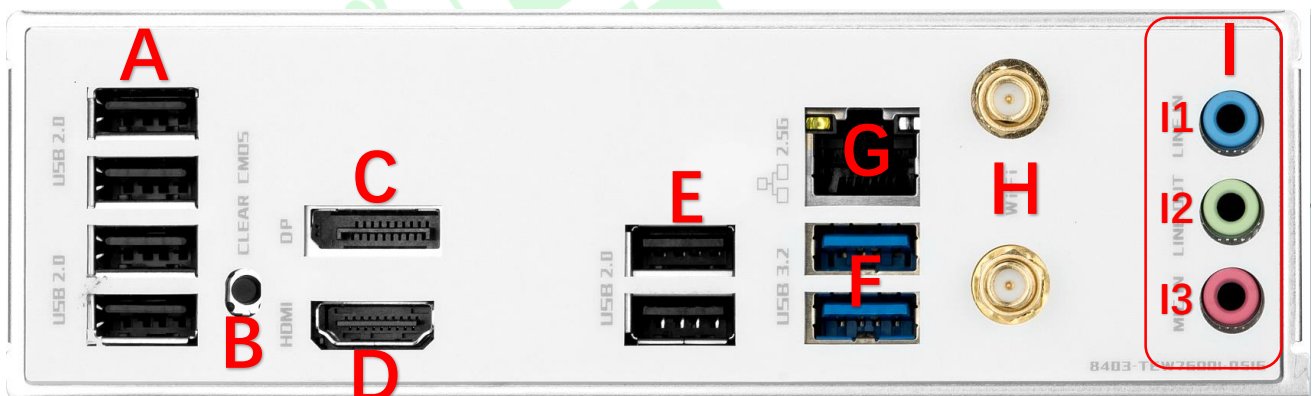
(This drawing is for reference only, some details will be adjusted according to the actual situation, please refer to the actual design, our company reserves the right to explain)

## Part 2 Specification

Motherboard size	MicroATX(245*245mm)
CPU	Supports LGA1700 slots Intel® 12th, 13th, and 14th processors TDP: PL1 241W; PL2 253W
Chipset	Intel®B760 High-speed chipsets
Memory	2 DIMM DDR5 memory slots (for single or dual memory slots, use the second and fourth slots first) Supports dual-channel memory technology Support for 4800/5600/6400/7200/7600 / XMP/OC frequency of memory
Display	Based on the display function of integrated graphics card processor, it adopts the shared display memory technology 1 DP1.4 interface, support up to 7680*4320@30Hz resolution 1 HDMI2.0 interface, the highest resolution support 4096x2160@60Hz
Extension interface	One PCIEX16 5.0 slot 1 PCIEX4 3.0 open slot One PCIEX1 3.0 slot Supports AMD, Nvidia, Intel independent graphics cards PCIe resizable bar technology (CPU and graphics card support)
Audio	Integrated REALTEK ALC897 sound card chip Support simultaneous output of front and rear channels (need to be set in the HD audio controller) Rear audio port: 1 rear onboard LINE IN port, 1 rear onboard LINE OUT port, and 1 rear onboard MIC_IN microphone port. F_AUDIO pins: 1 set of front microphone pins, 1 set of front audio output pins (These two pins are F_Audio pins) 1 set of 4-pin SPEAKER pins
Network	Integrated REALTEK 8125B NIC chip (10/100/1000/2500Mbit) 1 on-board RJ45 port Support network wake up Supports PXE diskless boot and UEFI diskless boot
Storage	3 M.2 slots (PCIe X4/X2 channel SSD only) 1 M.2_WIFI slot (CNVI network card only) Four SATA3.0 ports
USB	Onboard rear ports: 2 USB3.2 GEN2 ports, 6 USB2.0 ports In-board pins: 1 set (2) USB2.0 pins, 1 set (2) USB3.2 GEN1 pins, One USB3.2 Gen2x2 Type-C(20G) front interface
In-board socket	One COM_A pin 1 Set of CPU fan pins

	Three system fan pins (SYS_FAN1 supports DC speed control mode) 1 set of front control panel pins (F_PANEL) 2 sets of 5V ARGB pins and 1 set of 12V RGB pins 1 set of front audio pins
Power input	One 24PIN ATX power supply port for motherboard, 12V, 5V, 3.3V input 1 set of 8+4PIN mainboard ATX 12V power supply port with 12V input
Hardware monitoring	Voltage monitoring Temperature monitoring Fan monitoring Intelligent fan speed control (motherboard has been supported, intelligent fan speed control also needs fan support)
Operating system	Supports Windows10 64bit and Windows11 64bit Support Ubuntu 64bit
ESD protection	Air discharge $\pm 8KV$ Class C $\pm 6KV$ Class B Contact discharge $\pm 6KV$ Class C $\pm 3KV$ Class B * Test when the whole machine is well grounded

### 2.3、IO panel



A: Layer 4 USB2.0 interface

Supports up to 480Mb theoretical speed transfers and is backward compatible with the USB1.1 standard for connecting USB TYPE A devices.

B: Clear\_Cmos button

It is used to restore the default Bios status. After the power is powered off, tap 1-3S.

C: indicates the DP interface

DP1.4 interface, up to 7680x4320@30Hz resolution, used to connect to the DP display interface.

D: HDMI port

HDMI2.0 interface, up to 4096x2160@60Hz resolution, used to connect to the HDMI display interface.

**E: dual-layer USB2.0 interface**

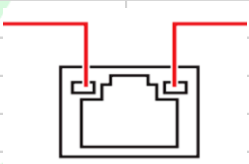
Supports up to 480Mb theoretical speed transfers and is backward compatible with the USB1.1 standard for connecting USB TYPE A devices.

**F: Dual-layer USB3.2 GEN2 interface**

Supports theoretical 10Gb speed transfers up to backward compatible with the USB2.0 standard for connecting USB TYPE A devices.

**G: RJ45 port**

Network cable interface, used to access the network cable to connect the host system to the network, with a maximum bandwidth of 2500Mbps.

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	

**H: Reserved slots for WI-FI antennas**

WI-FI wireless card antenna reserved hole, onboard WI-FI horizontal interface, you can assemble a WI-FI wireless card, and install the antenna here.

**I1: Audio-in interface (blue)**

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

**I2: Audio-out interface (light green)**

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

**I3: Audio- Microphone interface (pink)**

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

# MS-终结者 B760M GKD5 ICE

**规格书**

**VER:A0**

编辑时间：2023 年 07 月 31 日  
编辑部门：商科集团主板事业部



# 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)

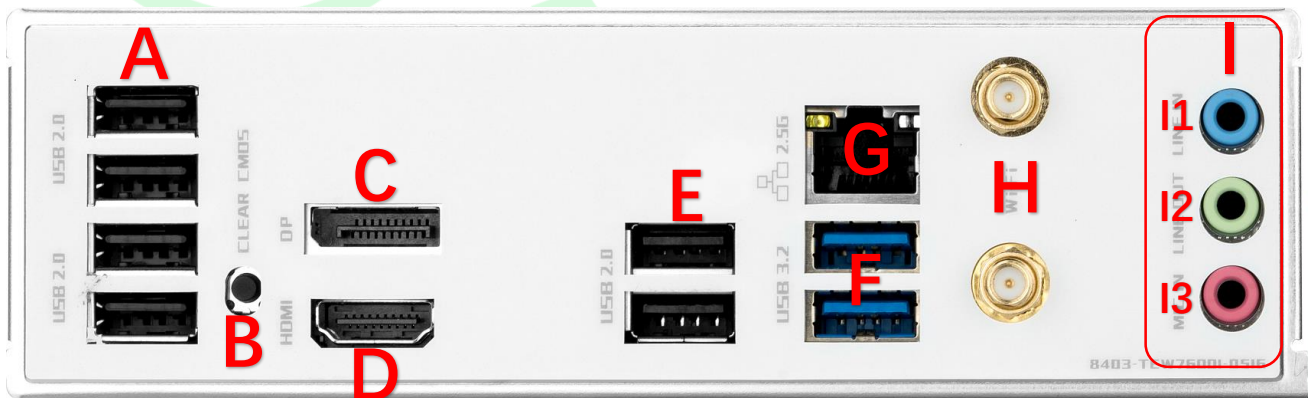
## 第二章 规格

主板尺寸	MicroATX(245*245mm)
CPU	支持 LGA1700 插槽 Intel®第 12th、13th、14th 处理器 TDP: PL1 241W; PL2 253W
芯片组	Intel®B760 高速芯片组
内存	2 个 DIMM DDR5 内存槽 (单插或双插内存请优先使用第二、第四条插槽) 支持双通道内存技术 支持 4800/5600/6400/7200/7600/XMP/OC 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 DP1.4 接口, 最高支持 7680*4320@30Hz 分辨率 1 个 HDMI2.0 接口, 最高支持 4096x2160@60Hz 分辨率
扩展接口	1 个 PCIEX16 5.0 插槽 1 个 PCIEX4 3.0 开放式插槽 1 个 PCIEX1 3.0 插槽 支持 AMD、Nvidia、Intel 独立显卡 支持 PCIe resizable bar 技术 (需 CPU 和显卡同步支持)
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) 1 组 4pin 喇叭 SPEAKER 插针
网络	集成 REALTEK 8125B 网卡芯片(10/100/1000/2500Mbit) 1 个板载 RJ45 接口 支持网络唤醒 支持 PXE 无盘、UEFI 无盘引导
存储	3 个 M.2 插槽 (仅支持 PCIE X4/X2 通道 SSD) 1 个 M.2_WIFI 插槽 (仅支持 CNVI 协议网卡) 4 个 SATA3.0 接口
USB	板载后置接口: 2 个 USB3.2 GEN2 接口, 6 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, 1 个 USB3.2 Gen2x2 Type-C(20G)前置接口
板内插座	1 个 COM_A 插针 1 组 CPU 风扇插针 3 组系统风扇插针(其中 SYS_FAN1 支持 DC 调速模式) 1 组机箱前置控制面板插针 (F_PANEL) 2 组 5V ARGB 插针, 1 组 12V RGB 插针 1 组前置音频插针



电源输入	1 个 24PIN 主板 ATX 供电接口, 12V、5V、3.3V 输入 1 组 8+4PIN 主板 ATX 12V 供电接口, 12V 输入
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

### 2.3、主板后置接口



#### A: 4 层 USB2.0 接口

最高支持理论 480Mb 速度传输, 可向下兼容 USB1.1 标准,用于连接 USB TYPE A 设备。

#### B: Clear\_Cmos 按钮

用于还原 Bios 初始默认状态, 断电后轻按 1-3S 即可。

#### C: DP 接口

DP1.4 接口, 最高支持 7680x4320 @30Hz 分辨率, 用于连接 DP 显示器接口。

#### D: HDMI 接口

HDMI2.0 接口, 最高支持 4096x2160 @60Hz 分辨率, 用于连接 HDMI 显示器接口。

#### E: 双层 USB2.0 接口

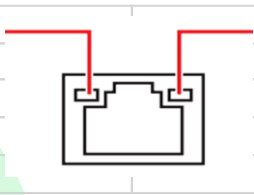
最高支持理论 480Mb 速度传输, 可向下兼容 USB1.1 标准,用于连接 USB TYPE A 设备。

#### F: 双层 USB3.2 GEN2 接口

最高支持理论 10Gb 速度传输, 可向下兼容 USB2.0 标准,用于连接 USB TYPE A 设备。

### G: RJ45 接口

网线接口，用于接入网线将主机系统连接到网络，最高带宽 2500Mbps。

运行指示灯			速度指示灯	
状态	描述		状态	描述
关闭	无链接	关闭	10Mbps 连接	
黄色	已链接	绿色	100Mbps 连接	
闪烁	数据传输	橙色	1000Mbps/2.5Gbps 连接	

### H: WI-FI 天线预留孔位

WI-FI 无线网卡天线预留孔位，板载 WI-FI 卧式接口，可自行装配 WI-FI 无线网卡，并将天线安装至此处。

### I1: Audio-in 接口(蓝色)

用于接收音频输入设备，如手机音频输入。

### I2: 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。

### I3: 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。