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铭瑄主板产品规格书

MS-Challenger A520M-K WIFI ARGB

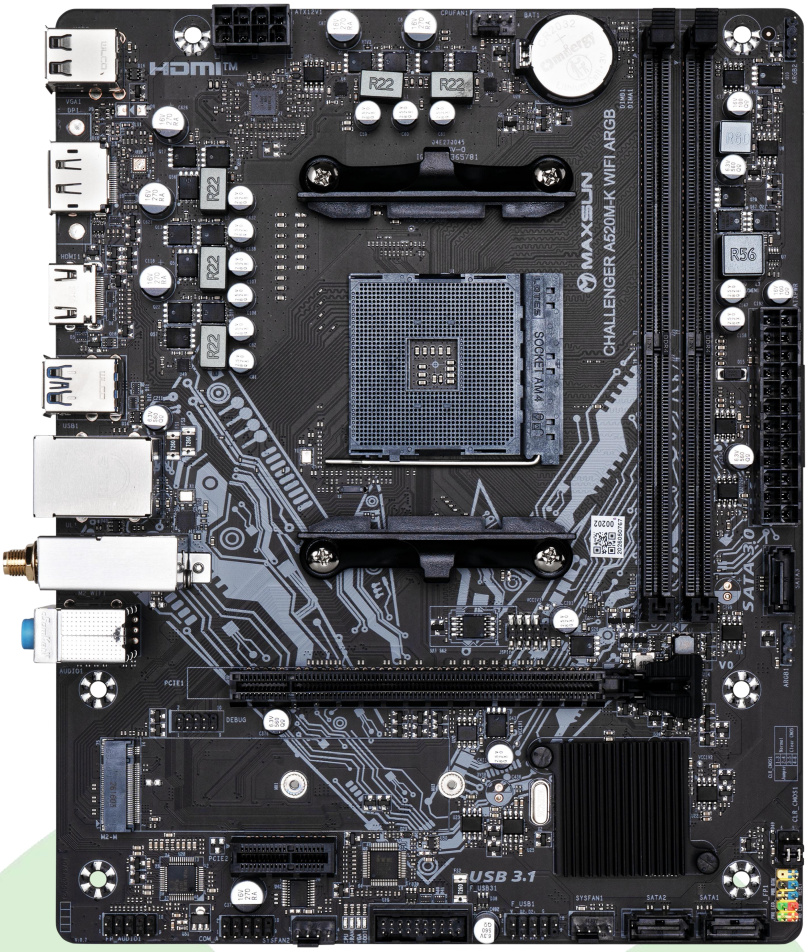
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产品包装

主板产品	MS-Challenger A520M-K WIFI ARGB主板
数据线	1 x SATA 6Gb/s 数据线
其他配件	1 x M.2 SSD螺丝包
	2 x Wi-Fi增益天线
	1 x 产品质保卡

规格

产品型号名	MS-Challenger A520M-K WIFI ARGB
产品尺寸	M-ATX 板型 225mm x 180mm
中央处理器	AMD® AM4插槽，默认支持 AMD Ryzen 1000-5000系CPU与APU
芯片组	AMD®A520芯片组
内存	2 x DIMM DDR4，最大容量 64GB 支持双通道内存架构 支持 2133/2400/2666/2933(OC)/3200(OC)/OC + 内存频率 *主板所能支持的最高频率由 CPU 体质和内存 DRAM 颗粒体质影响，不同搭配可达到的频率会有区别
显示接口	1个HDMI接口，最高支持3840*2160@30Hz 分辨率 1个DP接口，最高支持3840*2160@60Hz 分辨率 * 不同类型 CPU 的图形规格可能有所不同，详情请参阅 www.amd.com*
PCIe拓展槽	**来自AMD® Ryzen 处理器 ：** **1 x PCIe X16 插槽（支持 PCIe 3.0 X16 模式）** **来自AMD® A520芯片组：** **1 x PCIe X1 插槽（支持 PCIe 3.0 X1 模式）**
存储设备接口	**共支持 1 x M.2 插槽 、 3 x SATA 6Gb/s 接口** **来自AMD® Ryzen 处理器 ：** **M.2_A 插槽（Key_M）：支持 PCIe 3.0 X4/X2 模式，支持 2242 / 2280 长度**
网络功能	1 x Realtek RTL8111M 1000Mb Ethernet 接口 1 x Realtek® RTL8821CE 无线网卡 ：支持 Wi-Fi 5 与 Bluetooth® v4.2
USB接口	**板载USB（共4个接口）：** **1 x USB 3.2 Gen 1（5G）接针，支持 2 个额外的 USB 3.2 Gen 1 接口** **1 x USB 2.0 接针，支持 2 个额外的 USB 2.0 接口** **后置USB（共6个接口）：** **2 x USB 3.2 Gen 1 Type-A（5G）接口** **4 x USB 2.0 Type-A 接口**
音频	Realtek ALC897 高清音频编解码器
后置面板I/O设备接口	1 x DisplayPort 1.2 1 x HDMI™ 1.4 2 x USB 2.0 Type-A 接口 2 x USB 3.2 Gen 1 Type-A（5G）接口 2 x USB 2.0 Type-A 接口 1 x Realtek 1000Mb Ethernet 接口 3 x 音频插孔

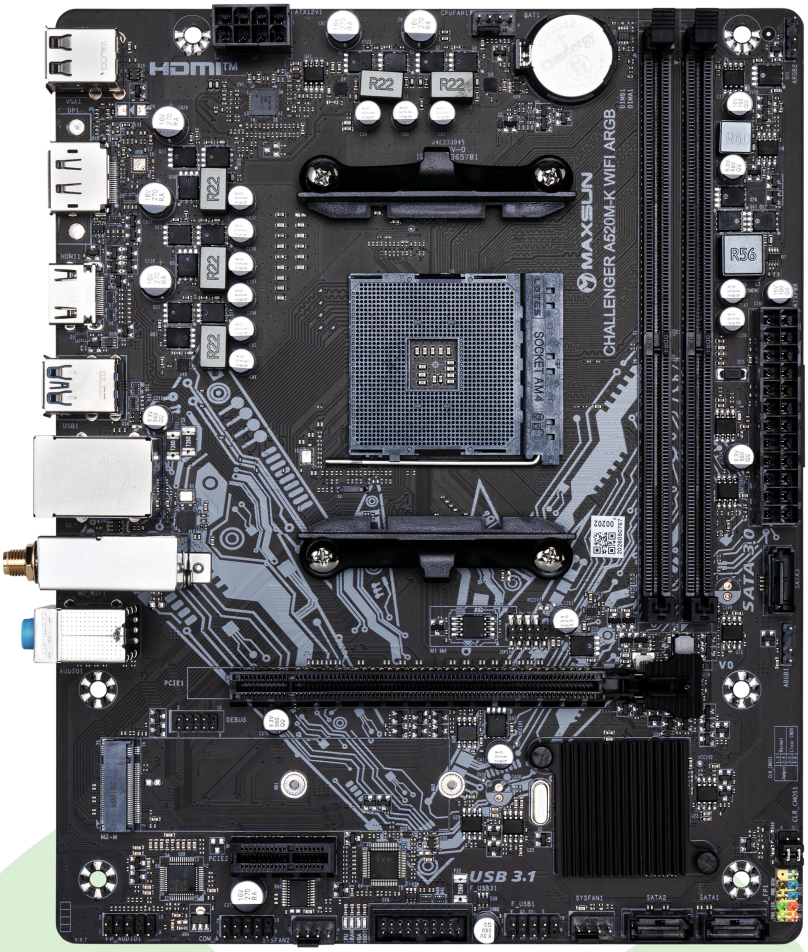
内置I/O设备接口	电源相关接口 1 x 24 Pin ATX 电源连接器 8 Pin +12V 电源连接器 风扇相关接口 1 x 4 Pin CPU_FAN 风扇接针 2 x 4 Pin SYS_FAN 机箱风扇接针 存储相关接口 1 x M.2 插槽（Key_M） 3 x SATA 6Gb/s 接口 板载 USB 接口 1 x USB 3.2 Gen 1（5G）接针，支持 2 个额外的 USB 3.2 Gen 1 接口 1 x USB 2.0 接针，支持 2 个额外的 USB 2.0 接口 其他接口 1 x COM 端口前置接针 1 x 前面板音频接针 1 x 10-1 Pin 系统面板接针 1 x Buzzer 蜂鸣器插针 2 x 5V ARGB 插针
支持操作系统	Windows® 11，Windows® 10 64-bit
特有功能	Maxsun Sync2 软件灯控

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Maxsun Motherboard Product Specification Manual

MS-Challenger A520M-K WIFI ARGB

V1.0 version
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Package Contents

Motherboard	1 x MS-Challenger A520M-K WIFI ARGB
Cables	1 × SATA 6Gb/s data cable
Accessories	1 × M.2 SSD screw kit
	2 × Wi-Fi high-gain antennas
	1 × Product warranty

Specification

Product Model Name	MS-Challenger A520M-K WIFI ARGB
Product Size	M-ATX Form Factor 225mm x 180mm
CPU	AMD® AM4 Socket，which natively supports AMD Ryzen Series 1000-5000 CPU and APU *requires a specific version of BIOS.
Chipset	AMD®A520 Chipset
Memory	2 x DIMM DDR4，with a maximum capacity of 64GB. Supports dual - channel memory architecture. Supports memory frequencies of 2133/2400/2666/2933(OC)/3200(OC)/OC + *The maximum frequency supported by the motherboard is influenced by the quality of the CPU and the memory DRAM chips. The achievable frequencies may vary depending on different combinations.
Display Port	1 HDMI interface, supporting a maximum resolution of 3840×2160@30Hz. 1 DP1.2 interface, with a maximum supported resolution of 3840×2160@ 60Hz. *The graphics specifications may vary depending on different CPU types. For detailed information, please refer to www.amd.com*
PCIe Expansion Slots	**From the AMD® Ryzen processor:** **1 x PCIe X16 slot (supports PCIe 3.0 X16 mode)** **From the AMD® A520 chipset:** **1 x PCIe X1 slot (supports PCIe 3.0 X1 mode)**
Storage Device Port	**Totally supports 1 x M.2 slot and 3 x SATA 6Gb/s interfaces.** **From the AMD® Ryzen processor:** **The M.2_A slot (Key_M): Supports PCIe 3.0 X4/X2 mode and supports the lengths of 2242 and 2280.**
Network Function	1 x Realtek RTL8111M 1000Mb Ethernet Interface 1 x Realtek RTL8821CE WIFI5 wireless module, support WiFi5, Bluetooth 4.2
USB Port	**Onboard USB (4 interfaces in total):** **1 x USB 3.2 Gen 1 (5G) pin header, supporting 2 additional USB 3.2 Gen 1 interfaces.** **1 x USB 2.0 pin header, supporting 2 additional USB 2.0 interfaces.** **Rear-panel USB (6 interfaces in total):** **2 x USB 3.2 Gen 1 Type-A (5G) interfaces.** **4 x USB 2.0 Type-A interfaces.**
Audio	Realtek ALC897 High-definition Audio Codec
Rear Panel I/O Device Interface	1 x DP 1.2 1 x HDMI™ 1.4 2 x USB 2.0 Type-A Port 2 x USB 3.2 Gen 1 Type-A (5G) Port 2 x USB 2.0 Type-A Port\ 1 x Realtek 1000Mb Ethernet Port 3 x Audio Socket

Built-in I/O Device Interface	**Power-related interfaces** **1 x 24 Pin ATX power connector** **8 Pin +12V power connector** **Fan-related interfaces** **1 x 4 Pin CPU_FAN fan pin header** **2 x 4 Pin SYS_FAN case fan pin headers** **Storage-related interfaces** **1 x M.2 slot（Key_M)** **3 x SATA 6Gb/s interfaces** **Onboard USB interfaces** **1 x USB 3.2 Gen 1 (5G) pin header，supporting 2 additional USB 3.2 Gen 1 interfaces** **1 x USB 2.0 pin header，supporting 2 additional USB 2.0 interfaces** **Other interfaces** **1 x Front panel COM port pin header** **1 x Front panel audio pin header** **1 x 10-1-pin system panel pin header** **1 x Buzzer pin header** **2 x 5V ARGB header**
Supported OS	Windows® 11，Windows® 10 64-bit
Special functions	Maxsun Sync2 ARGB control software