

### Product Overview

**MR852D** is an industrial-grade 5G WiFi router, particularly designed for outdoors use. It has waterproof and dust-proof design, with IP65 Ingress Protection Rating, suitable for used in open-air environment. Widely used in various outdoor equipment data access to the Internet, such as video surveillance (solar street lights, lighting poles, base stations, towers), as well as remote control of unmanned vehicles (mining and agricultural unmanned vehicles, patrol robots etc.)

MR852D can usefull for hard outside conditions like forest or high mountains. It has dual SIM slot supported with two different operetor connection. This also can usefull for 5G supported operator backed-up with 4G supported operator.

It is also usefull for for suburban area internet covarage. It supports 3000Mbps WiFi6 connections for the clients. It supports up to 64pcs different devices. Device can supports VPN terminations for remote backbone connections. Its also have PoE supported WAN port.



### Product Main Features

- **5G** cellular module, compatible with **4G LTE/3G**
- **Dual SIM slot**, avoid data transmission disconnect, auto-reconnect
- **5G to WiFi6** support WiFi sensors and WiFi camera access to internet
- **WiFi6** support **3000Mbps**
- Excellent wireless transmission capacity, support up to **64pcs WiFi devices**, WiFi transmission distance up to **50 meters**
- Support **PoE power** receiving
- Not only power adapter, you can power the router device by PoE too
- **GPS optional**, for tracking ships, trains, vehicles etc
- Provide free software for devices batch management, both on-premise and cloud deployment
- Support various **VPN** and customization
- Built-in **firewall**, ensure network security
- Ingress Protection Rating **IP65**, waterproof and dust-proof
- particularly suitable for various outdoors equipment and engineering vehicles

**Technical Features**

- Supports 2 Gigabit Ethernet interfaces, of which the WAN port supports PoE power receiving;
- Compatible 5G/4G/3G network;
- Support 802.11a/b/g/n/ac/ax 3000Mbps WIFI, 2.4G/5.8G dual-band;
- Supports multiple protocols: TCP/IP, UDP, HTTP, TELNET, ICMP, DHCP, PPPOE, DNS, DDNS, etc.;
- Support static routing and RIP/OSPF routing protocols;
- Supports QoS protocols such as priority mapping, traffic policing, traffic shaping, congestion management, and speed limiting;
- Support ACL and NAT functions;
- Supports firewall, packet filtering, URL filtering and other functions;
- Supports configuration of VPN such as GRE, L2TP, IPSEC, OpenVPN, VXLAN, etc.;
- Supports link detection function and can quickly switch to the backup link based on the detection results;
- Support logging function;
- Support CLI, WEB and SNMP/TR069 centralized network management;
- Supports version upgrade and rollback functions.

**Technical Features**

<b>Interfaces</b>	2*1000M Ethernet ports, of which the WAN port supports PoE power receiving; 2*Plug-in SIM card slots; 4*5G antenna interface; 2*WIFI antenna interface; 1*DC power interface; 4*indicators (RUN, WAN, LAN, 5G)
<b>5G/4G</b>	5G NR: n1/n28/n41/n78/n79 LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/39/B40/B41 WCDMA: B1/B8
<b>WIFI</b>	802.11 a/b/g/n/ac/ax, <b>3000Mbps</b>
<b>Device size</b>	240*240*90mm (excluding antenna and pendant)
<b>Power consumption</b>	≤18W
<b>Working temperature</b>	-20~+70°C
<b>Power supply</b>	(1) DC 12V 1.5A; (2) PoE power receiving, default 0.5A@48V
<b>Housing</b>	High strength metal housing
<b>Ingress Protection Rating</b>	IP65
<b>Working humidity</b>	10~95%RH
<b>Mounting</b>	Embrace pole clasp type, wall-mounted type

### Application Fields

- **Intelligent manufacturing** : data acquisition, communication coordination and control between large-scale machines (including robots), remote control and maintenance of equipment
- **Smart energy** : real-time data acquisition and transmission, remote scheduling and coordinated control, multi-system high-speed interconnection, intelligent distributed feeder automation of power grid
- **Smart transportation** : 5G communication, big data, cloud services and artificial intelligence will create a new generation of smart transportation systems
- **Intelligent Security** : HD video surveillance and transmission
- **Smart logistics** : whole-process logistics monitoring and tracking, DRONE delivery, intelligent storage
- **Intelligent warehousing** : AGV vehicle coordination, 5G machine vision application, warehouse management system remote scheduling
- **Smart Industrial Park & Community** : Massive sensor data collection and processing, AI video monitoring, smart factory, smart travel, smart medical care, smart home, smart finance and other scenarios integration
- **Smart Healthcare** : telemedicine monitoring, telemedicine real-time consultation, telemedicine emergency rescue guidance
- **Intelligent self-service terminal**: unmanned new retail, data interconnection between commodity origin and retail terminal, intelligent transfer of goods, virtual experience
- **Smart media** : HD live video, virtual studio, news content production

