5G Industrial Indoor Router

MII5202

The 5G NR indoor industrial router MII5202 is specifically designed for small-scale Fixed Wireless Access (FWA) applications, offering exceptional performance and a variety of features. Powered by a high-performance CPU and ample memory, the MII5202 provides efficient data processing and reliable operation. It includes one Gigabit WAN port and four Gigabit LAN ports, enabling seamless connections for multiple devices. The dual Micro SIM card slots ensure uninterrupted network connectivity, while the LED indicators provide real-time updates on data transmission and network connection status. This router is ideal for environments requiring high-speed, stable internet access with flexibility and reliability.

MII5202 also features high-precision GNSS positioning, providing accurate location information for IIoT devices to meet remote real-time monitoring needs. It is built with a RS-485 interface and supports the Modbus RTU (Remote Terminal Unit) protocol, facilitating the integration and data transfer with various industrial devices and instruments, significantly enhancing the flexibility of industrial applications.

Additionally, MII5202 can operate stably within an extreme temperature range from -30°C to +70°C, making it suitable for various harsh environments and climate conditions. With its advanced technologies, outstanding performance, as well as multiple flexible design features, MII5202 can provide stable and reliable operation in various industrial application scenarios.

Features

1. 1. High-performance wireless network SoC processor.
2. 2. Multi-functional interface ports: RS-485, Digital Input/ Digital Output (DI/DO).
3. 3. Dual Micro SIM card slots for enhancing network connection stability.
4. 4. GNSS functionality provides accurate location information to support positioning needs.
5. 5. LED indicators display signal strength and network connection status in real-time for easy monitoring.
6. 6. Compatible with M.gear detachable SMA LTE/5G and GNSS antennas.
7. 7. Stable operation at extreme temperature ranges from -30°C to +70°C.
8. With competitive 5G module to provide rich features and efficient solutions.

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Specifications

General

Cellular Interface

- 5G: NR NSA/SA
- 4G: LTE FDD/TDD
- 3G: WCDMA
- GNSS: L1

Hardware Interface

- 1 x 10/100/1000 Base-T WAN port with LED
- 4 x 10/100/1000 Base-T LAN ports with LED
- 2 x Micro SIM slots
- 1 x USB 2.0
- 1 x Reset Button
- 1 x RS-485 (D+/D-/GND)
- 1 x DI (Isolated), 1 x DO (Isolated)
- Terminal Block Power Input：8~26 VDC

Antenna

- 4 x SMA connectors for detachable 5G Antenna
- 1 x SMA connector for detachable GNSS antenna

Physical Characteristics

Enclosure : Metal case
Dimensions (W x H x D) : 138.9mm x 131mm x 38mm
Weight : 600g
Installation : Wall mounting, DIN-rail mounting, Desktop
LED Display :

- 1 x Power status
- 1 x LTE/5G
- 3 x Signal status

Power Supply

Power Input : AC 100 ~ 240 V
DC Output : 12V/ 2A(MAX)

Software

Network Protocols

- IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client
- Static IP, SNTP, DNS proxy, Modbus TCP to Modbus RTU
- Static routing and RIP v1/v2

VPN

OpenVPN,IPSec(DES,3DES,AES128,AES196,AES256,MD5, SHA1, SHA128, SHA192, SHA256)

Firewall

- NAT, Virtual server, Port trigger, DMZ
- MAC and URL filter, Stateful packet inspection, DOS attack

Alarm: SMS, VPN/WAN disconnect, SNMP trap

Others: DDNS, QoS(SCM), SMS Action, USB Storage, Diagnostics

Management: Web GUI with HTTPS/HTTP, Dual image, Syslog, SNMP, SSH v2

Environment

Operating Temperature: -30 ~ +70°C

Storage Temperature: -40 ~ +85°C

Ambient Relative Humidity: 10 ~ 95% (Non-condensing)

Humidity: 0 ~ 95% (Non-condensing)

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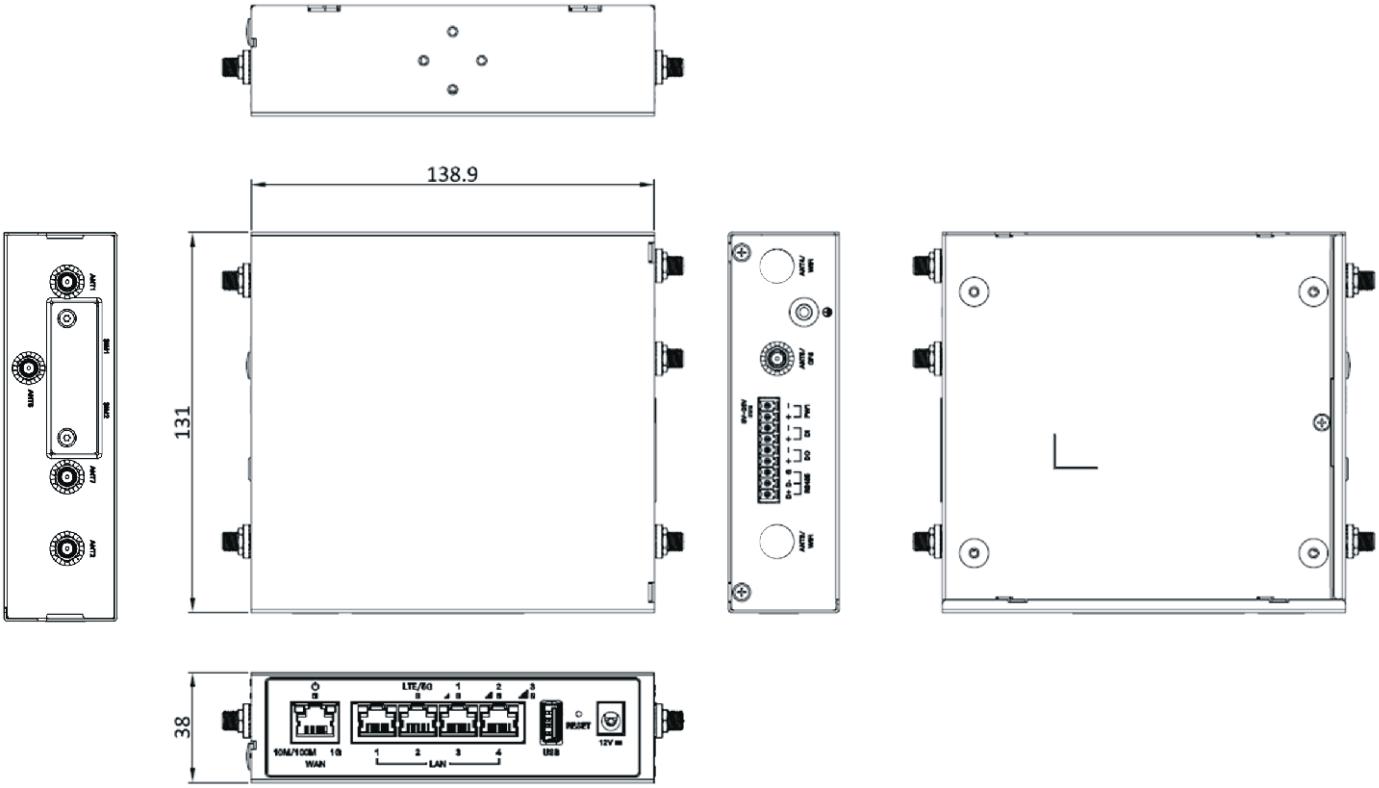
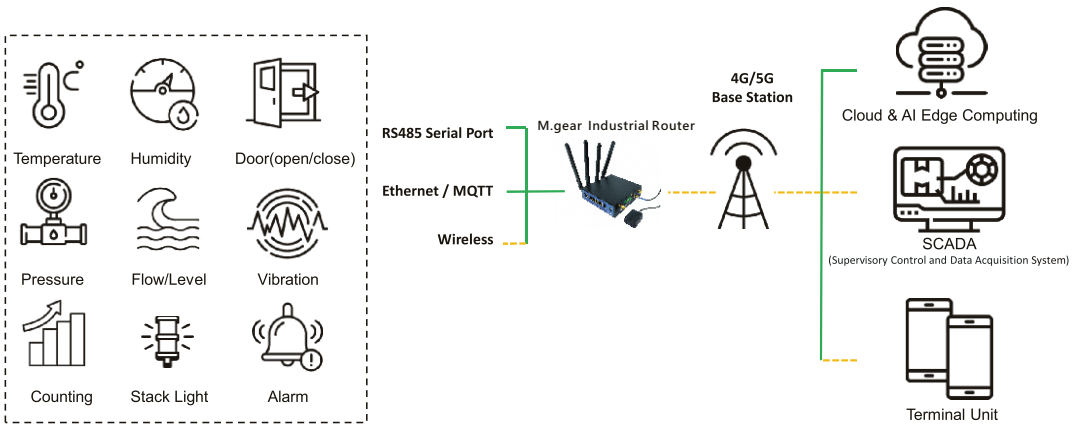
Enclosure Drawing



Application Example



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