

M350 Series Industrial Dual SIM 5G Cellular Router

Introduction

PROSCEND M350 Series, Industrial Dual SIM 5G Cellular Router, built in 5-port Gigabit Ethernet, GPS connectivity, Dual-SIM slots for 5G or 4G LTE SIM, 802.11 a/b/g/n/ac (with WiFi Model) selectable Dual-Band WiFi, RS-232, RS-485 serial port and digital input/output interfaces and triple power inputs (two terminal blocks and one DC Jack) for power redundancy gives you more experience on faster connectivity.



PROSCEND M350 Series provides load balancing that balances Internet traffic over multiple WAN connections. The aim of load balancing is to keep connectivity and maximize throughput. Featuring VPN Tunnels, Firewall, TR069, and SNMP Trap, the M350 Series is designed for highly secure authentication, encryption and management to protect your data efficiently between public and private networking. It can operate at temperature range of -30°C to 70°C and flexible input voltage range for diverse environments and various applications.

Features

- Support multi-band connectivity with 5G NR / FDD LTE / TDD LTE / WCDMA
- 5 10/100/1000Mbps Ethernet ports
- Multiple power inputs design for easy installation and power redundancy
- Built-in two SIM slots, RS-232, RS-485 serial port, and DI/DO interfaces
- Support load balance to optimize efficiency and maximize throughput.
- 802.11 a/b/g/n/ac selectable Dual Band WiFi (with WiFi models).
- Support failover for redundant network connections
- Integrated detachable antenna against radio interference
- Industrial rated from -30 to $+70^{\circ}\text{C}$ for use in harsh environments
- IPv6/IPv4 dual stack
- Support serial communication protocols for rich connectivity
- Enhance security and encryption for authentication and transmission
- Industrial design and high bandwidth transmission suitable for SMB, Hotspot

Specifications

Cellular Interface

5G NR: n1, n3, n7, n8, n28, n38, n41, n78
4G FDD/TDD: B1, B3, B7, B8, B28, B38, B41

Wi-Fi Interface (M350-W4, M350-W6, M350-W5G)

Compliant with IEEE 802.11 a/b/g/n/ac Wi-Fi standards
2.4 GHz/5 GHz dual radio band for wireless
2T2R MIMO wireless operation rate
Wireless security with WPA2-PSK(AES)
Multiple SSIDs
Wireless MAC Filtering
Wireless client isolation

Hardware Interface

High Performance 716 MHz SoC with 256MByte Flash
4 x LAN 10/100/1000 Mbps Ethernet ports
1 x WAN 10/100/1000 Mbps Ethernet port
2 x SIM Slots
1 x WPS / RESET Button
1 x RS-232 (TXD/RXD/GND, Non-Isolated)
1 x RS-485 (D+/D-/GND, Non-Isolated)
1 x DI (Isolated), 1 x DO (Isolated)
2 x SMA connectors for LTE Antenna (M350-6, M350-W6)
2 x RP-SMA connectors for WiFi (M350-W5G, W350-W6)
4 x SMA connectors for 5G Antenna (M350-5G, M350-W5G)
1 x SMA connector for GPS antenna (M350-6, M350-W6)

Physical Characteristics

Enclosure : Metal Case
Dimensions (W x H x D) : 139mm x 38mm x 129mm
Weight : 643g
Installation : DIN Rail (Default) / Wall Mount

LED Display

1 x SYS LED
1 x FN LED
1 x SIM1 LED
1 x SIM2 LED
2 x RSSI1 L/H LED
2 x RSSI2 L/H or WiFi 2.4G/5G LED
1 x WiFi Selected LED
1 x 1000M & 1 x 10/100M LED per port

Power Supply

Power Inputs : Two Terminal Blocks and One DC Jack
Power Consumption (Max): 11W(M350-6), 14W(M350-W6)
13W(M350-5G), 17W(M350-
Power Input: 8~ 48 VDC Max 2.1A or 12 VDC/2A Adaptor

Software

Load Balancing:

Balance Internet traffic over multiple WAN connections including LTE, Ethernet WAN.

Network Protocols:

IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, GPS sync time, DNS Proxy, VRRP, OSPF, Message Queue Telemetry Transport, (MQTT Broker), BGP, Flow (Modbus master ↔ MQTT client)

Routing/Firewall:

NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing and RIP-1/2, Policy Route

VPN:

OpenVPN, IPsec (3DES, AES128, AES196, AES256, MD5,SHA-1, SHA256), GRE, PPTP, L2TP

Wireless Connectivity:

Two SIM for failover / roaming over / back up, Two SIM data usage control, Seamless multi WAN connections switch

Others:

DDNS, QoS, UPnP, SMS Action, GPS Track Drawing, GPS, TCP Push

Alarm:

DI, DO,SMS, VPN/WAN Disconnect, SNMP Trap, E-mail, TR069

Management

Web GUI for remote and local management, CLI

Syslog monitor

SNMP, TR069

FOTA (Firmware over the Air)

Remote management via SSH v2, HTTPS

Local management via Telnet, SSH v2, HTTP/HTTPS

Environment

Operating Temperature	-30 ~ +60°C (M350-6, M350-5G)
	-30 ~ +60°C (M350-W6, M350-W5G)
	0 ~ +40°C (Using Adaptor)

Storage Temperature	-40 ~ +85°C
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Ambient Relative Humidity	10 ~ 95% (non condensing)
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Humidity	0 ~ 95% (non condensing)
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Certification

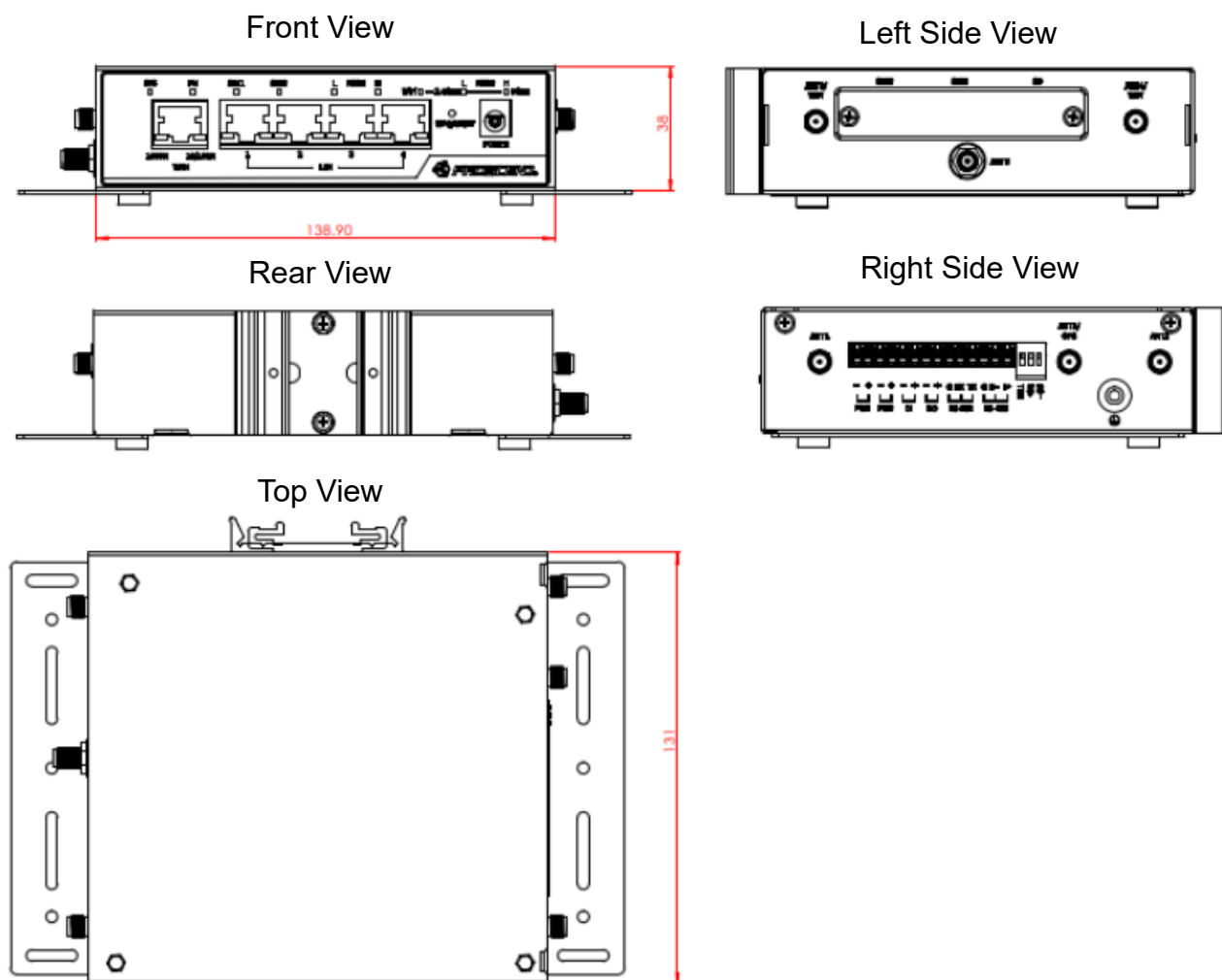
NCC

CE

FCC



Dimension



Ordering Information

M350-5G	Industrial Dual SIM 5G Cellular Router
M350-W5G	Industrial Dual SIM 5G Cellular Router w/WiFi
M350-6	Industrial Dual SIM CAT6 Cellular Router
M350-W6	Industrial Dual SIM CAT6 Cellular Router w/WiFi
M350-4	Industrial Dual SIM CAT4 Cellular Router
M350-W4	Industrial Dual SIM CAT4 Cellular Router w/WiFi

** Features and specifications are subject to change without prior notice.*