PROSCEND®

M350 Series Industrial Cellular Router
# Quick Installation Guide

Version: 1.00

Insert and Remove SIM/SD Card

STEP 1: Before inserting or removing the SIM/SD card, ensure that the power has been turned off, or the power connector has been removed from the M350 Series Cellular Router.

STEP 2: Using a screwdriver to remove the metal protective cover first, insert the SIM/SD card into the card slot. For SIM1 and SIM2, the cut-off edge of SIM cards are to the right. For the SD card, the cut-off edge of SD card is to the left.

STEP 3: Push the SIM/SD card and lightly press it to lock into the slot.

STEP 4: Remove the SIM/SD card, lightly press it and it will pop out the slot.
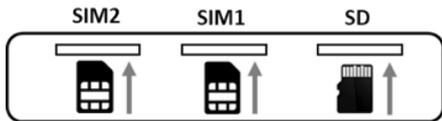
LED Indicators

The following table explains the LED indicators on the front panel.

| LED	Off	On	Slow	Fast	Heartbeat
SYS	Power down	System up	Booting	N/A	N/A
FN	User defined	User defined	User defined	User defined	User defined
SIM1	Not working	Connected	Connecting	Error	Reading
SIM2	Not working	Connected	Connecting	Error	Reading
RSSI1 L	N/A	Low signal	N/A	N/A	N/A
RSSI1 H	N/A	High signal	N/A	N/A	N/A
WiFi	Wi-Fi off or unavailable	Wi-Fi on	N/A	N/A	N/A
RSSI2 L 2.4GHz	N/A	• RSSI2 L: Low signal • Wi-Fi 2.4GHz on	N/A	N/A	N/A
RSSI2 H 5GHz	N/A	• RSSI2 H: High signal • Wi-Fi 5GHz on	N/A	N/A	N/A

Reset Button

WPS and Reset functions are merged into one button.

WPS/RESET

| Function	Operation
WPS Processing	Press the button less than 5 seconds.
Reset	Press the button for 5-10 seconds.
Reset to default setting	Press the button for more than 10 seconds.

Connecting I/O Ports

There are four terminals on the terminal block with two terminals used for each digital input and two terminals used for each digital output.
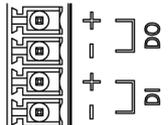
Pin	Description
DI +	Digital Input
DI −	
DO +	Digital Output
DO −	

• DI: Low (+0 to +3V) / High (+10 to +30V)
• DO: Photo relay (maximum 50V/500mA)

LED Indicators of Ethernet Port
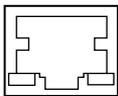
1000M   10/100M

Four LAN ports and one WAN port are used for 8-pin RJ45 connectors. Each Ethernet port has two LED indicators.

LED	Blinking	On	Off
1000M	Data Transmitting	1000Mbps LINK UP	LINK DOWN
10/100M	Data Transmitting	10/100Mbps LINK UP	LINK DOWN

COM (RS-232)

RS-232 interface on the right panel is the terminal block type.

Pin	Signal	Direction
TX	Transmit Data	Output
RX	Receive Data	Input
G	Signal Ground	-

COM (RS-485)

RS-485 supports 2-wire half duplex operation.

Pin	Description
D +	Serial Port, Data+ (A) wire
D −	Serial Port, Data− (B) wire
G	Signal Ground

RS-485 2-wire cable (Twisted Pair)

DIP Switch

ON DIP 1 2 3   BS− BS+ TRM
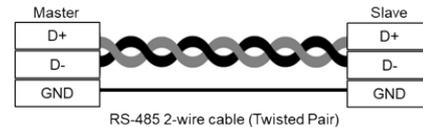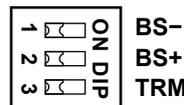
| DIP Switch	Mode	ON	OFF
1	BS−	Enabled (D−) 1K ohm Pull Low	Disabled (D−) Pull Low
2	BS+	Enabled (D+) 1K ohm Pull High	Disabled (D+) Pull High
3	TRM	Enabled 120 ohm Termination between (D+) and (D−)	Disabled Termination

NOTE:
• (D+), (D−) stands for RS-485 pinouts.
• BS−, BS+ must be at the same ON/OFF position.

Connecting the Power Supply
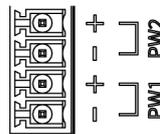
Two terminal blocks (PW1, PW2) are on the right panel. The power input voltage is 8 ~ 48 VDC.
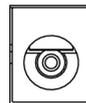
The other one is a DC Jack type on the front panel. The power input voltage is 12 VDC, 2A.

POWER

Antenna Installation

There are four models for the M350 Series, and each model has its own antenna type to install on the assigned connector, as shown in the following table.

Connector Model	ANT1	ANT2	ANT3/WiFi	ANT4/WiFi	ANT5/GPS	ANT6
M350-5G	5G Antenna	5G Antenna			5G Antenna	5G Antenna
M350-W5G	5G Antenna	5G Antenna	Wi-Fi Antenna	Wi-Fi Antenna	5G Antenna	5G Antenna
M350-6	LTE Antenna	LTE Antenna			GPS Antenna	
M350-W6	LTE Antenna	LTE Antenna	Wi-Fi Antenna	Wi-Fi Antenna	GPS Antenna	

▪ ANT1, ANT2, and ANT5/GPS are on the right panel of the device.

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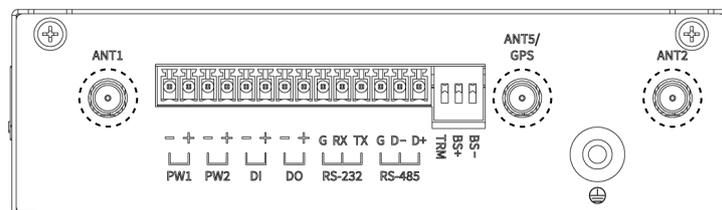
▪ ANT3/WiFi, ANT4/WiFi, and ANT6 are on the left panel of the device.
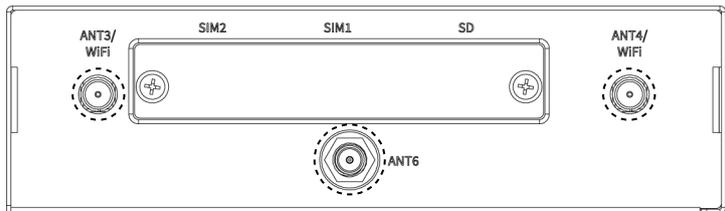
NOTE:
• ANT1, ANT2, ANT5, and ANT6 are the SMA connectors.
• ANT3 and ANT4 are the RP-SMA connectors.
• For the 5G models (M350-5G, M350-W5G), all 5G antennas must be installed on the assigned ANT1, ANT2, ANT5, and ANT6 connectors. The 5G antenna is integrated with GPS.
• For the LTE models (M350-6, M350-W6), all LTE antennas must be installed on the assigned ANT1 and ANT2 connectors.
• Each different antenna type is shown in the following picture.

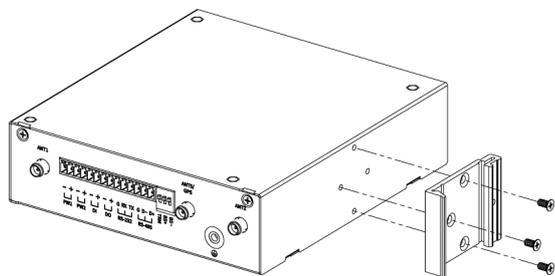**5G Antenna**

LTE Antenna
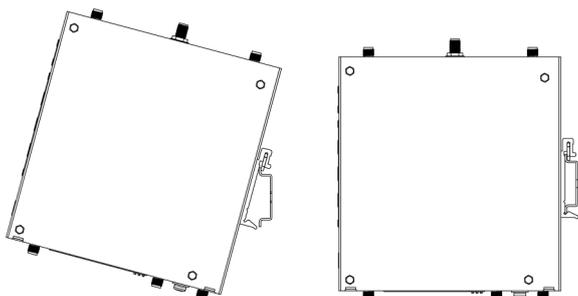
Wi-Fi Antenna

GPS Antenna

DIN-rail Mounting

STEP 1: Use the screws to install the DIN-rail kit to attach at the rear side of the device.

NOTE: Three screw types are flat head M3 x 4 mm.

STEP 2: Hook the unit onto the DIN-rail.
STEP 3: Push the bottom of the unit towards the DIN-rail until it locks in place.


Wall Mounting

STEP 1: At the bottom side of the device, use two screws to install each bracket.

NOTE: Each screw type is flat head M3 x 4 mm.

STEP 2: Use the screws to attach the bracket of the device for wall mounting.

NOTE: These screws are not included in the package. The head of each screw is less than 7 mm in diameter, the shaft is less than 3 mm in diameter, and the length is less than 10 mm in diameter.
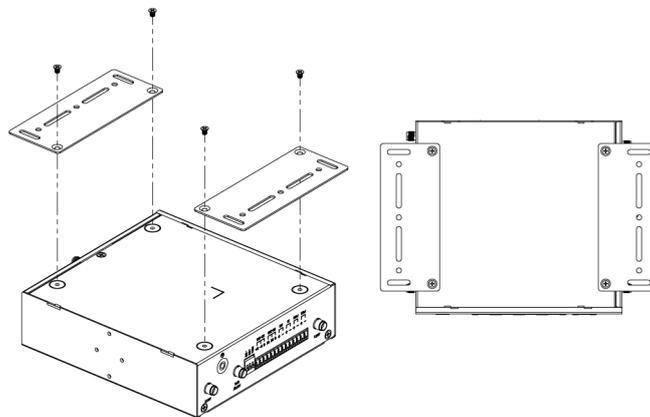
Setup

(1) Access the Web Configurator
a. Type the default URL **http://192.168.1.1** in your web browser.
b. In the login page, enter the default username **root** and the default password **2wsx#EDC** and then click the **Login** button.
(2) Change Password
Go to the **Management → Administration** and enter the desired **New Password** and then scroll down the page and click the **Apply** button.

Wi-Fi Connection

▪ Each of M350-W5G or M350-W6 supports selectable 2.4GHz and 5GHz radio bands. The default setting is 2.4GHz, and the default password is 12345678.
▪ The default SSID is led by the model name (M350-W5G or M350-W6), followed by a string of characters (the MAC address of the device), and ended by the radio band (either 24G for 2.4GHz, or 5G for 5GHz). For example, the SSID of M350-W5G is M350-W5G-xxxxxxxxxxxx-24G.

NOTE: Go to **Wi-Fi** setting to change the default wireless network name and password.

NOTE
• This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and (2)This device must accept any interference received, including interference that may cause undesired operation. • Please scan below QR Code to download online resources. Download link: https://www.proscend.com/en/product/M350.html   M350 Series

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