M351-5G Industrial Cellular Router
# Quick Installation Guide

Version: 1.02

Install the SIM Card

STEP 1: Before inserting or removing the SIM cards, ensure that the power has been turned off, or the power connector has been removed from the M351-5G Cellular Router.

STEP 2: Using a screwdriver to remove the metal protective cover first, insert the SIM cards into the card slots. The cut-off edge of the SIM1 card (SIM 2) is to the left (right).

STEP 3: Push the SIM cards and lightly press them to lock into the slot.

STEP 4: Remove the SIM cards, lightly press them and they will pop out of the slot.
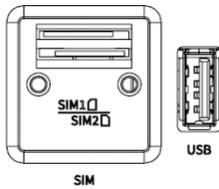
NOTE:

- Please use the industrial SIM cards operating from -40°C to +105°C to ensure proper cellular router operation.
- The USB port for the future reserve.
- SIM loose contacts: adding a layer of tape behind the SIM might increase contact pressure for better attachment.

LED Indicators

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

LED	Off	On	Slow	Fast	Heartbeat
SYS	Power down	Power up	N/A	N/A	N/A
FN	Not working	Internet connected	N/A	N/A	N/A
SIM1	Not working	Connected	Connecting	Error	Reading
SIM2	Not working	Connected	Connecting	Error	Reading
Signal	No signal	High signal	Medium signal	Low signal	N/A

Reset Button

RESET

Function	Operation
Reset	Press the button for 1 second.
Reset to default setting	Press the button for more than 5 seconds.

Connecting I/O Ports

There are four terminals on the terminal block, two for digital input and two for digital output.
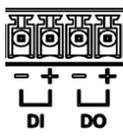
| Pin	Description
DI +	Digital Input
DI -	Digital Input
DO +	Digital Output
DO -	Digital Output

DI: Low (+0 to +3V)/High (+8 to +40V)

DO: Open Collect (maximum 30V/300mA)

LED Indicators of Ethernet Port

There are two LED indicators for each of the four LAN ports and one WAN port.

1000M LINK
WAN   LAN 1 2 3 4
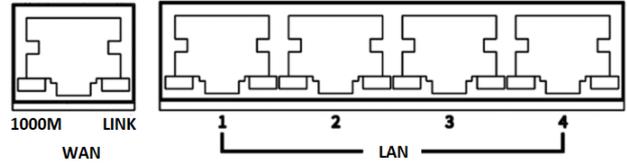
LED	Blinking	On	Off
1000M	N/A	1000Mbps	10/100Mbps
LINK	Data Transmitting	LINK UP	LINK DOWN

RS-232 and RS-485 pinouts

G RX TX G D− D+
RS-232   RS-485
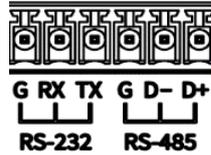
RS-232

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

RS-485

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

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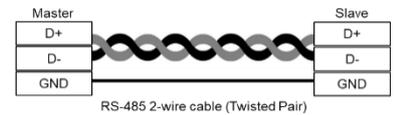
DIP Switch	Mode	ON	OFF
1	BS−	Enabled (D−) 1K ohm Pull Low	Disabled (D−) Pull Low
2	BS+	Enabled (D+) 1K ohm Pull High	Disabled (D+) Pull High
3	TRM	Enabled 120-ohm Termination between (D+) and (D−)	Disabled Termination

NOTE:

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

www.proscend.com

Connecting the Power Supply

Powering the M351-5G Cellular Router is by either a terminal block or a DC jack.
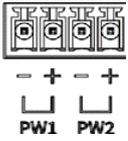
+, - pins of the terminal block (PW1, PW2) on the right panel. The power input voltage range is 12~26 VDC.


One DC Jack is on the front panel.

The power input voltage is 12 VDC, 2A.

Antenna Installation

Tow SMA connectors placed on the right panel are for connecting to external 5G antennas.

ANT1 and ANT2: for 5G/4G Transmit and Receive.

ANT5 and ANT6: for optional 5G Receive for better downstream speed.
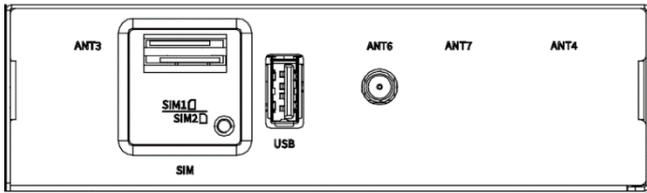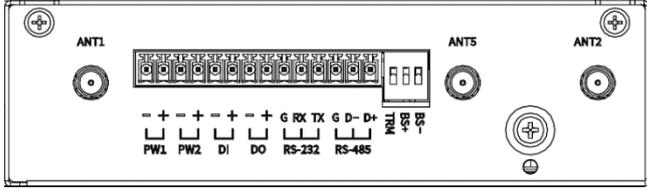
DIN-rail Mounting

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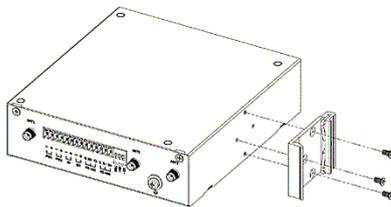
NOTE:

▪ Three screw types are flat head M3 x 5 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.
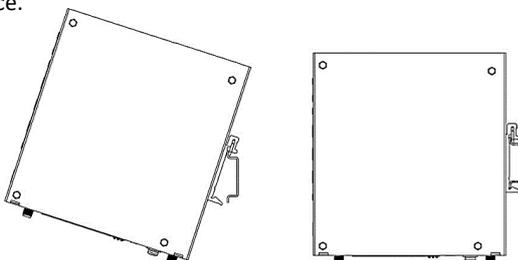
Wall Mounting

STEP 1: Use two screws to install each bracket at the bottom of the device.

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.
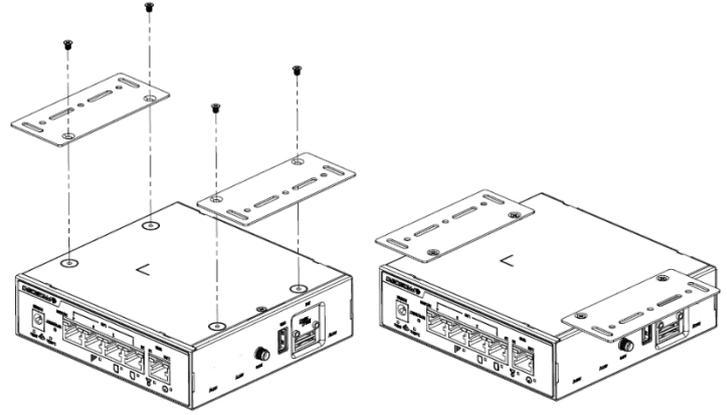
NOTE:

▪ 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.

NOTE

▪ Please scan below QR Code to download online resources.
  Download link: https://www.proscend.com/en/product/M351.html

M351