Industrial 4G LTE Cellular Router

Quick Installation Guide (v1.0)

Hardware Installation Procedure

STEP 1: Open the SIM cover, and insert the SIM card in the slot.

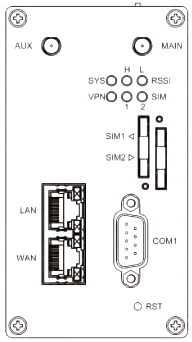
STEP 2: Connect the 10-32 VDC power adaptor to the Cellular Router and then plug the power adaptor into a DC outlet.

STEP 3: To configure the Cellular Router, use an Ethernet cable to connect the Cellular Router directly to your computer's Ethernet interface.

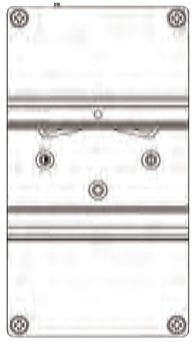
STEP 4: Connect the Cellular Router's serial or Ethernet port to a serial or an Ethernet device.

Hardware Interface Overview

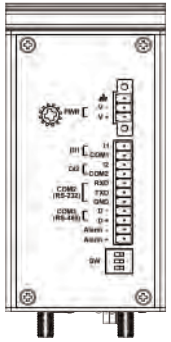
■ **ICR211**



Front View

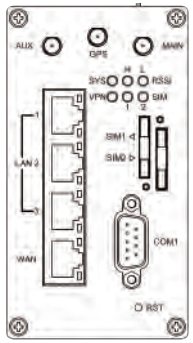


Rear View

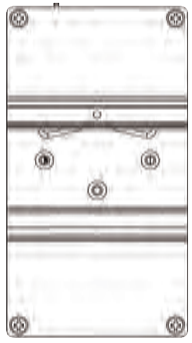


Top View

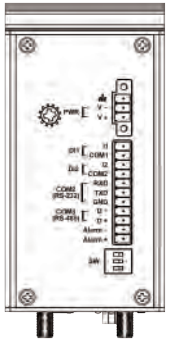
■ **ICR100G**



Front View



Rear View



Top View

LED Indicators

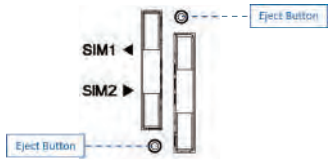
LED	SYS	RSSI High	RSSI Low	VPN	SIM1	SIM2
ON	System UP	Normal Signal	Low Signal	VPN Connected	Connected	Connected
Slow Blinking	Booting	N/A	N/A	WAN Connected	Connecting	Connecting
Fast Blinking	N/A	N/A	N/A	N/A	Error	Error
OFF	Power Down	N/A	N/A	NO WAN Connection	Not Working	Not Working
Heart Beat	N/A	N/A	N/A	N/A	Reading	Reading

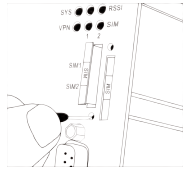
Install the SIM card

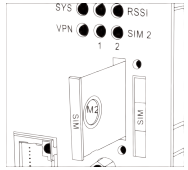
■ **Insert and Remove SIM1/SIM2 Card**

(1) Before inserting or removing the SIM card, ensure that the power has been turned off and the power connector has been removed from Cellular Router.

(2) Press the button with a paper clip or suitable tool to eject the SIM card from the drawer.

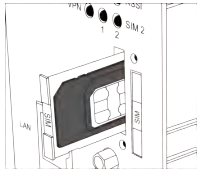


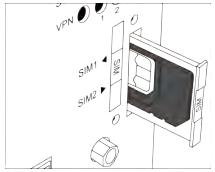


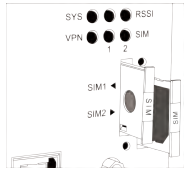


(3) Insert the SIM card with the contacts facing up and align it properly into the drawer. Make sure your direction of SIM Card and put it into the tray.

(4) Slide the drawer back and locks it in place.







Note:

- *Please make sure the direction first. When pushing into the SIM tray without putting the correct direction, the tray will be stuck inside.*
- *Please turn off your router before taking the SIM card.*

Ethernet Port

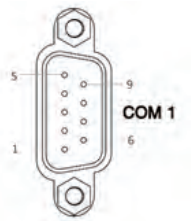
■ **LED Indicator of Ethernet Port**

Each Ethernet port has two LED indicators.

LED	Status	Description
Green (Link/ACT)	Off	Connection is down
	Blink	Data is being transmitted
	On	Connection is up
Yellow (Speed)	Off	10 Mbps Mode
	On	100 Mbps Mode

Serial Port COM1

The serial port COM1 is a standard Sub-D connector.



PIN	Description	Direction
1	N/A	N/A
2	RXD	In
3	TXD	Out
4	N/A	N/A
5	GND	Gound
6	N/A	N/A
7	RTS	Out
8	CTS	In
9	N/A	N/A

Serial Port COM2 (RS-232)

PIN	Description
RXD	RXD Signal (INPUT)
TXD	TXD Signal (OUTPUT)
GND	Signal Ground (※)

Serial Port COM3 (RS-485)

PIN	Description
D -	Data- (B) wire
D +	Data+ (A) wire

※ Both connectors (RS-232 and RS-485) have a common ground connection.

Reset Button

RST Reset button allows you to reboot the unit or restore to factory default setting.

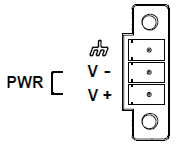
Function	Operation
Reboot	Press the button for 1 second
Restore to factory default setting	Press the button for more than 5 seconds

Note:

Press the Reset button and count the time around 5 seconds. The LED Indicators will be blinking to show you have activated the setting successfully.

Connecting the Power Supply

DC power supplies in the range of 10-32 VDC.



Pin	Power (10-32 VDC)
⏚	FRAME GROUND
V -	Negative
V +	Positive

Connecting the Power Supply

■ Digital Input DI1 & DI2

PIN	Description
DI1_I1	Digital INPUT 1
DI1_COM	
DI2_I2	Digital INPUT 2
DI2_COM	

- INPUT : +10 to +30 VDC for state "1"
- INPUT : +0 to +3 VDC for state "0"

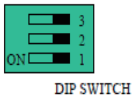
■ Digital Output – Alarm Contacts

Photo relay output with current capacity of 500 mA / 50 VDC maximum.

PIN	Description
Alarm -	Alarm negative signal output
Alarm +	Alarm positive signal output

DIP Switch

A built-in 120 ohm terminal resistor can be activated by DIP switch. Pull high or Pull low resistor adjustments are also available. It improves the communication on RS-485 networks for specific application.



DIP SWITCH

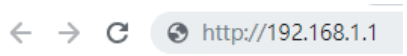
Switch 1 and 2 set the Pull high or Pull low resistor. Switch 3 enables or disables the termination resistor.

Pull High (510 ohm) / Pull Low (510 ohm) Bias Resistor	SW 1 (Pull Low)	SW 2 (Pull High)
Enable	ON	ON
Disable (Default)	OFF	OFF

Termination Resistor (120 ohm)	SW 3
Enable	ON
Disable (Default)	OFF

Internet Setup

1 Launch the web browser and enter IP address ***http://192.168.1.1*** as URL.



2 Enter the user name and the password and then click ***Login***.

IP Address: ***192.168.1.1***
User Name: ***root***
Password: ***2wsx#EDC***