

# UR75 Industrial Cellular Router Quick Start Guide



#### Welcome

Thank you for choosing Ursalink UR75 industrial cellular router.

This guide describes how to install the UR75 and how to log in the Web GUI to configure the device. Once you complete the installation, refer to the Ursalink UR75 User Guide for instructions on how to perform configurations on the device.

#### **Related Documents**

This Start Guide only explains the installation of Ursalink UR75 router. For more functionality and advanced settings, please refer to the relevant documents as below.

Document	Description	
Ursalink UR75 Datasheet	Datasheet for the Ursalink UR75 industrial cellular router.	
Ursalink UR75 User Guide	Users could refer to the guide for instruction on how to log in the	
	web GUI, and how to configure all the settings.	

The related documents are available on Ursalink website: <a href="http://www.ursalink.com">http://www.ursalink.com</a>.

## **Declaration of Conformity**

UR75 are in conformity with the essential requirements and other relevant provisions of the CE, FCC, and RoHS.











For assistance, please contact Ursalink technical support: Email: helpdesk@ursalink.com

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#### **Revision History**

Date	Doc Version	Description
Aug. 4, 2020	V1.1	Initial version



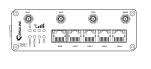
# **Contents**

1. Packing List	4
2. Hardware Introduction	5
2.1 Overview	5
2.2 Dimensions	6
2.3 Connectors	6
2.4 LED Indicators	7
2.5 Reset Button	7
2.6 Ethernet Port Indicator	8
3. Hardware Installation	9
3.1 SIM Card Installation	9
3.2 Antenna Installation	9
3.3 Mount the Router	9
3.3.1 DIN Rail Mounting	9
3.3.2 Wall Mounting	10
3.4 Protective Grounding Installation	10
4. Log in the Web GUI of Router	11
4.1 PC Configuration	11
4.2 Log in the Router	12
5. Network Connection of Router	14
5.1 Ethernet WAN Configuration	14
5.2 Cellular Connection Configuration	15
5.3 Wi-Fi Connection Configuration	17



## 1. Packing List

Before you begin to install the UR75 router, please check the package contents to verify that you have received the items below.







1 × Ethernet Cable

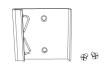


1 × Power Adapter



1 × 8-Pin Pluggable





1 × DIN Rail Kit



1 × Warranty Card



1 × Wall Mounting Bracket (Optional)

#### **UR75-5G Antennas:**



4 × Stubby Cellular Antennas



2 × Stubby Wi-Fi Antennas



Antenna Magnetic Mount (Optional)

#### **UR75-4G Antennas:**



2 × Magnetic Mount Cellular Antennas



2 × Stubby Wi-Fi Antennas



1 × GPS Antenna (GPS Version Only)



2 × Stubby Cellular Antennas (Optional)



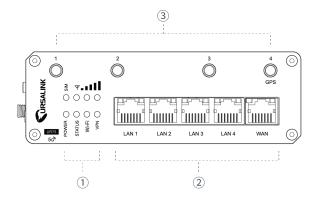
If any of the above items is missing or damaged, please contact your Ursalink sales representative.



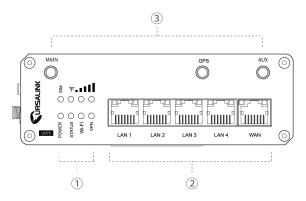
#### 2. Hardware Introduction

#### 2.1 Overview

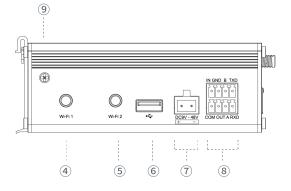
#### A. Front Panel of UR75-5G



#### B. Front Panel of UR75-4G



#### C. Left Side Panel



1 LED Indicator Area

POWER: Power Indicator SYSTEM: Status Indicator Wi-Fi: Wi-Fi Indicator

**VPN: VPN Indicator** 

SIM : SIM Status Indicator **Y**: Signal Strength Indicator

- (2) Ethernet Ports & Indicators
- 3 Cellular Antenna Connectors (Connector 4 is for both GPS and cellular)

(1) LED Indicator Area

POWER: Power Indicator SYSTEM: Status Indicator Wi-Fi: Wi-Fi Indicator VPN: VPN Indicator

SIM : SIM Status Indicator **Y**: Signal Strength Indicator

- 2 Ethernet Ports & Indicators
- 3 Antenna Connectors

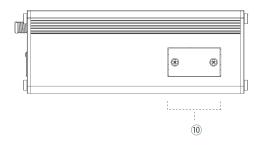
MAIN: Main Cellular Antenna Connector AUX: Auxiliary Cellular Antenna Connector

GPS: GPS Antenna Connector

- (4) Wi-Fi Antenna Connector 1
- 5 Wi-Fi Antenna Connector 2
- (6) USB Port (Reserved)
- 7 Power Connector
- 8 Serial Port & I/O Ports
- Grounding Stud

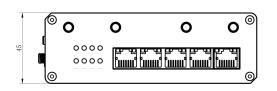


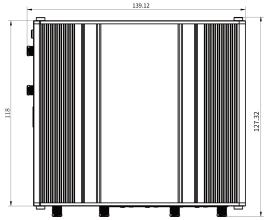
#### D. Right Side Panel

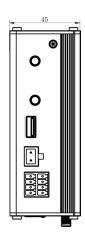


SIM and Reset Button Holder

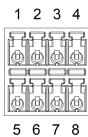
# 2.2 Dimensions (mm)







# 2.3 Connectors





## Serial Port&I/O Ports

PIN	RS232	RS485	DI	DO	Description
1			IN		Digital Input
2	GND		GND		Ground
3		В			Data -
4	TXD				Transmit Data
5				СОМ	Common Ground
6				OUT	Digital Output
7		Α			Data +
8	RXD				Receive Data

#### **Power Connector**







## 2.4 LED Indicators

LED	Indication	Status	Description	
DOMED	DOWED Dower Status		The power is switched off	
POWER Power Status	On	The power is switched on		
SYSTEM System Status		Casan Light	Static: Start-up	
	System Status	Green Light	Blinking slowly: the system is running properly	
		Red Light	The system goes wrong	
VDN	VDN Status	Off	VPN is disconnected	
VPN	VPN Status	Green Light	VPN is connected	
=-	=	Off	Wi-Fi is disabled	
Wi-Fi	Wi-Fi Status	Green Light	Wi-Fi is enabled	
		Off	SIM1 or SIM2 is registering or fails to register (or there are	
			no SIM cards inserted)	
			Blinking slowly: SIM1 (as primary SIM) has been registered	
		Green Light	and is ready for dial-up	
			Blinking rapidly: SIM1(as primary SIM) has been registered	
			and is dialing up now	
SIM	SIM Card Status		Static: SIM1 (as primary SIM) has been registered and	
			dialed up successfully	
		Orange Light	Blinking slowly: SIM2 (as primary SIM) has been registered	
			and is ready for dial-up	
			Blinking rapidly: SIM2(as primary SIM) has been registered	
			and is dialing up now	
			Static: SIM2 (as primary SIM) has been registered and	
			dialed up successfully	
	Signal Signal 1/2/3	Off	No signal	
5		Green Light	Static/Off/Off: weak signals with 1-10 ASU (please check if	
			the antenna is installed correctly, or move the antenna to	
			a suitable location to get better signal)	
			Static/Static/Off: normal signals with 11-20 ASU (average	
			signal strength)	
			Static/Static/Static: strong signals with 21-31 ASU (signal is	
			good)	

# 2.5 Reset Button



Reset button is under the SIM slots.

Function	Description			
Function	SYSTEM LED Action			
	Blinking	Press and hold the reset button for more than 5 seconds.		
Reset	Static Green → Rapidly Blinking	Release the button and wait.		
	Off → Blinking	The router is now reset to factory defaults.		



## 2.6 Ethernet Port Indicator

Indicator	Status	Description
Link Indicator (Orange)	On	Connected
	Blinking	Transmitting data
	Off	Disconnected



## 3. Hardware Installation

#### 3.1 SIM Card Installation



UR75 do not support hot-plug. Please cut off the power before insert or take off cards.

A. Unscrew the holder of the SIM card.



- B. Insert the SIM card(s) into the device following the triangle location of SIM card(s).
- C. Put SIM card into the slot and screw it up.



#### 3.2 Antenna Installation

Rotate the antenna into the antenna connector accordingly. The external antenna should be installed vertically always on a site with a good signal.



#### 3.3 Mount the Router

The router can be placed on a desktop or mounted to a wall or a DIN rail.

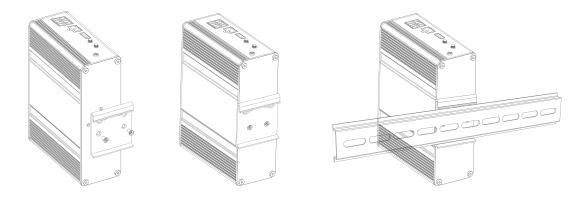
## 3.3.1 DIN Rail Mounting

Use 2 pcs of M3  $\times$  6 flat head Phillips screws to fix the DIN rail to the router, and then hang the DIN rail on the mounting bracket. It is necessary to choose a standard bracket.



Recommended torque for mounting is 1.0 N·m, and the maximum allowed is 1.2 N·m.



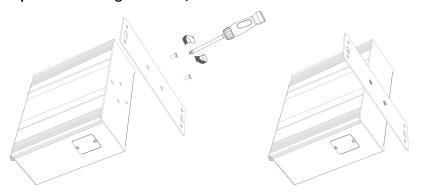


## 3.3.2 Wall Mounting

Use 2 pcs of M3  $\times$  6 flat head Phillips screws to fix the wall mounting kit to the router, and then use 2 pcs of M3 drywall screws to mount the router associated with the wall mounting kit on the wall.

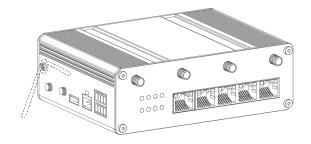


Recommended torque for mounting is 1.0 N·m, and the maximum allowed is 1.2 N·m.



## 3.4 Protective Grounding Installation

- A. Remove the grounding nut.
- B. Connect the grounding ring of the cabinet's grounding wire onto the grounding stud and screw up the grounding nut.





The router must be grounded when deployed. According to operating environment, the ground wire should be connected with grounding stud of router.

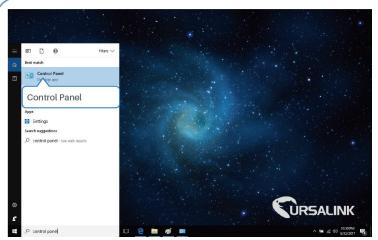


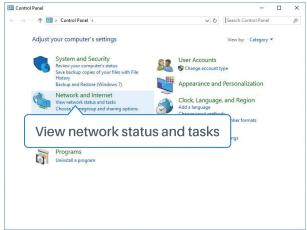
# 4. Log in the Web GUI of Router

## 4.1 PC Configuration

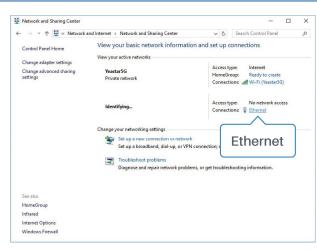
Please connect PC to any port among LAN1-LAN4 of UR75 router directly. PC can obtain an IP address, or you can configure a static IP address manually. The following steps are based on Windows 10 operating system for your reference.

(**Note:** As remote access is disabled by default, you can't access to the router's Web GUI if you connect PC to WAN port of the router. But it will function properly if you enable it on the Web GUI.)

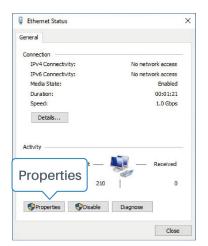




- ① Click "Search Box" to search "Control Panel" on the Windows 10 taskbar.
- ② Click "Control Panel" to open it, and then click "View network status and tasks".

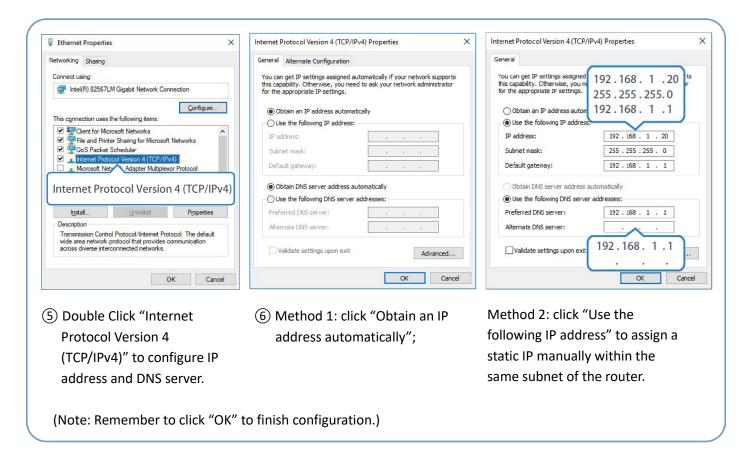


3 Click "Ethernet" (May have different names).



(4) Click "Properties".





## 4.2 Log in the Router

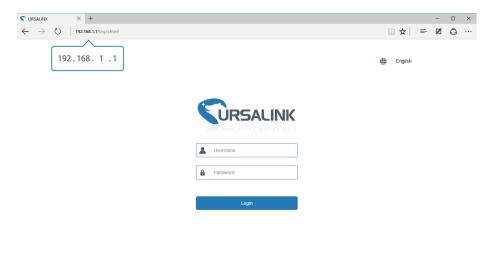
If this is the first time you configure the router, please use the default settings below:

IP Address: 192.168.1.1

Username: **admin** Password: **password** 

A. Start a Web browser on your PC (Chrome and IE are recommended), type in the IP address, and press Enter on your keyboard.

B. Enter the username and password, click "Login".





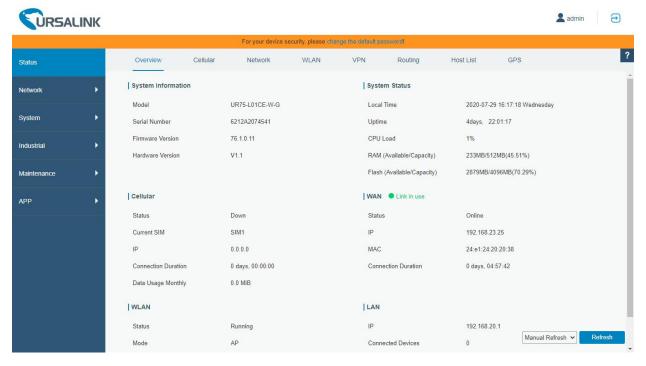


If you enter the username or password incorrectly more than 5 times, the login page will be locked for 10 minutes.

C. When you log in with the default username and password, you will be asked to modify the password. It's suggested that you change the password for the sake of security. Click "Cancel" button if you want to modify it later.



D. After you log in the Web GUI, you can view system information and perform configuration on the router.



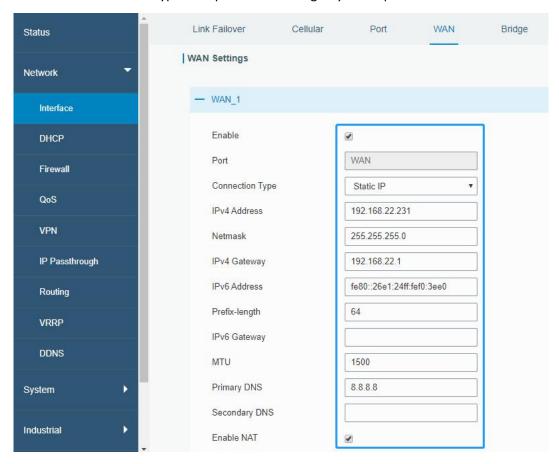


## **5. Network Connection of Router**

This chapter explains how to connect UR75 to network via WAN connection, cellular and Wi-Fi.

## **5.1 Ethernet WAN Configuration**

A. Go to "Network > Interface > WAN" to configure WAN parameters. Take static IP configuration as an example. DHCP client and PPPoE type are optional according to your requirements.



Click "Save & Apply" button to make the changes take effect.

- B. Connect UR75 WAN port to another router or modem.
- C. Log in UR75 web GUI via WAN port IP address and go to "Status > Network" to check if status is "up".



D. Go to "Network > Interface > Link Failover" to rise the WAN priority to 1.





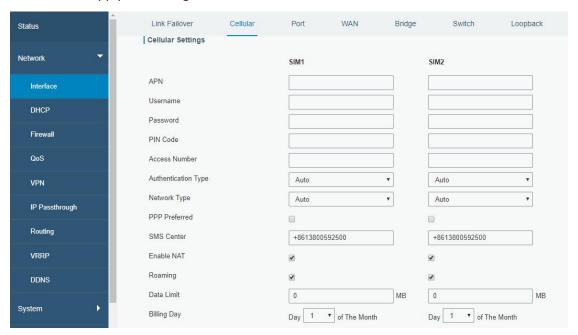
E. Open your preferred browser on PC, then type any available web address into address bar and see if it is able to visit Internet via UR75 router.

## **5.2 Cellular Connection Configuration**

Take inserting SIM card into SIM1 slot as an example; please refer to the following detailed operations.

A. Click "Network > Interface > Cellular > Cellular Setting" to configure the cellular info, like APN and network type.

B. Click "Save" and "Apply" for configuration to take effect.



If you select "Auto", the router will obtain ISP information from SIM card to set APN, Username, and Password automatically. This option will only be taken effect when the SIM card is issued from a well-known ISP.

C. Go to "Network > Interface > Link Failover" to enable SIM1 and rise link priority of SIM1.



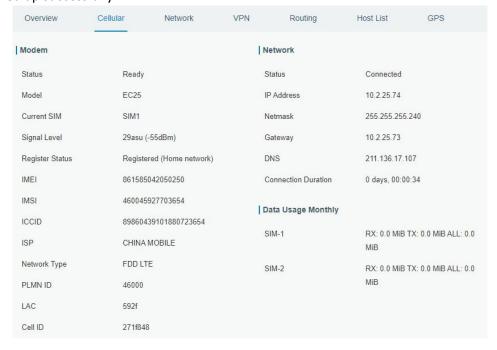


D. Click to configure ICMP ping detection information.



E. Click "Status > Cellular" to view the status of the cellular connection. If it shows "Connected", it means SIM1 has dialed up successfully.

On the other hand, you can check the status of SIM indicator. If it keeps on green light statically, it means SIM1 has dialed up successfully.



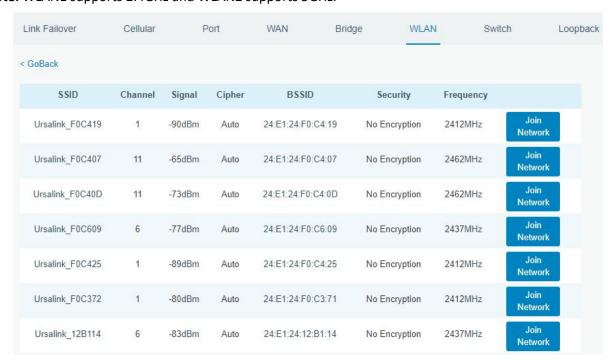


F. Open your preferred browser on PC, then type any available web address into address bar and see if it is able to visit Internet via UR75 router.

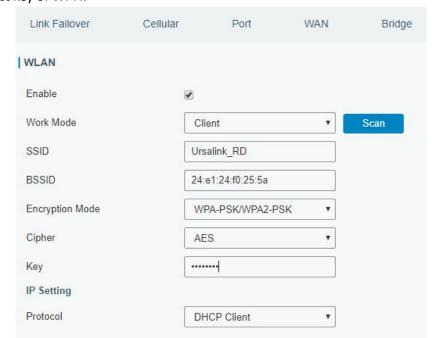
## 5.3 Wi-Fi Connection Configuration

A. Go to "Network > Interface > WLAN" and select "Client" mode.

B. Click "Scan" to search for Wi-Fi access point. Select the available one and click "Join Network". **Note:** WLAN1 supports 2.4GHz and WLAN2 supports 5GHz.



C. Type the correct key of Wi-Fi.

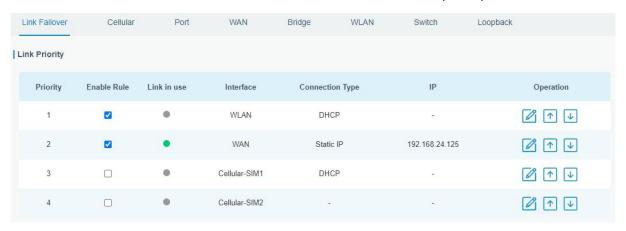


D. Go to "Status > WLAN" to check Wi-Fi status. If it shows "Connected", it means router connects to Wi-Fi successfully.





E. Go to "Network > Interface > Link Failover" to enable WLAN and rise link priority of WLAN.



[END]