



# **Industrial Router Lite Series** UR32L

**Quick Start Guide** 





## **Safety Precautions**

Milesight will not shoulder responsibility for any loss or damage resulting from not following the instructions of this operating guide.

- The device must not be modified in any way.
- Do not place the device close to objects with naked flames.
- Do not place the device where the temperature is below/above the operating range.
- Do not power on the device or connect it to other electrical device when installing.
- Check lightning and water protection when used outdoors.
- Do not connect or power the equipment using cables that have been damaged.

#### **Related Documents**

This Start Guide only explains the installation of Milesight UR32L router. For more functionality and advanced settings, please refer to the relevant documents as below.

Document	Description
UR32L Datasheet	Datasheet for UR32L industrial cellular router.
UR32L 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 Milesight website: <a href="https://www.milesight-iot.com">https://www.milesight-iot.com</a>

#### **Declaration of Conformity**

UR32L are in conformity with the essential requirements and other relevant provisions of the CE, FCC, and RoHS.









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## **Revision History**

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Date	Doc Version	Description
Apr. 13, 2021	V 1.0	Initial version
July 22, 2021	V 1.1	Delete Ethernet Cable

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## **Contents**

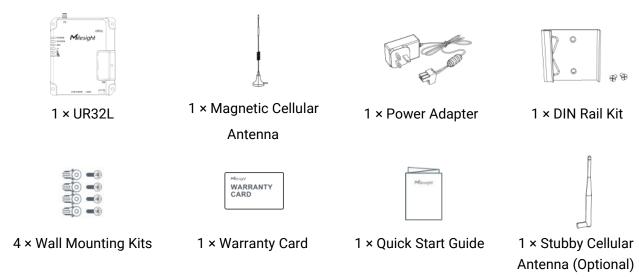
1. Packing List	
2. Hardware Introduction	[
2.1 Overview	
2.2 Dimensions	
2.3 LED Indicators	
2.4 Reset Button	
2.5 Ethernet Port Indicator	
3. Hardware Installation	
3.1 SIM Card Installation	
3.2 Antenna Installation	
3.3 Router Installation	
3.3.1 Wall Mounting	
3.3.2 DIN Rail Mounting	
4. Log in the Web GUI of Router	
5. Network Configuration	
5.1 Ethernet WAN Configuration	12
5.2 Cellular Connection Configuration	



## 1. Packing List

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Before you begin to install the UR32L router, please check the package contents to verify that you have received the items below.

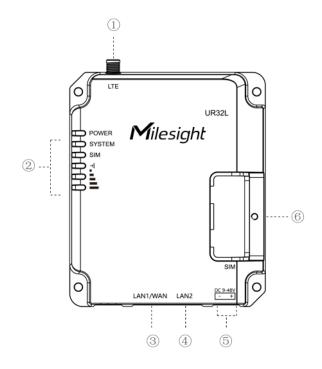




If any of the above items is missing or damaged, please contact your sales representative.

## 2. Hardware Introduction

#### 2.1 Overview



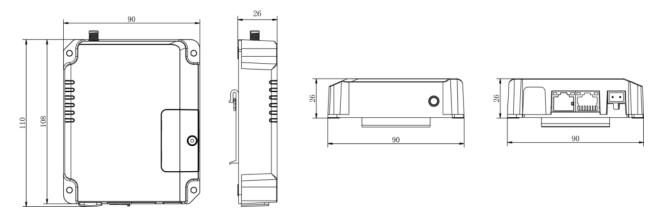
- Cellular Antenna Connector
- ② LED Indicator Area
  POWER: Power Indicator
  SYSTEM: Status Indicator
  SIM: Status Indicator
  Y: Signal Strength Indicator

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- 3 Ethernet LAN1/WAN Port
- 4 Ethernet LAN2 Port
- (5) Power Connector
- 6 SIM and Reset Button Holder

# 2.2 Dimensions (mm)

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## 2.3 LED Indicators

LED	Indication	Status	Description	
POWER	Power Status	Off	The power is switched off	
		On	The power is switched on	
SYSTEM	System Status	Green Light	Static: Start-up	
			Blinking slowly: the system is running properly	
		Red Light	The system goes wrong	
SIM		Off	SIM is registering or fails to register (or there are no SIM	
			cards inserted)	
	SIM Card Status	Green Light	Blinking slowly: SIM has been registered and is ready for	
			dial-up	
Silvi			Blinking rapidly: SIM has been registered and is dialing	
			up now	
			Static: SIM has been registered and dialed up	
			successfully	
Signal Strength	Signal 1/2/3	Off	No signal	
		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)	

## 2.4 Reset Button

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Reset button is under the SIM slots.

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

#### 2.5 Ethernet Port Indicator

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

#### 3. Hardware Installation

## **Environmental Requirements**

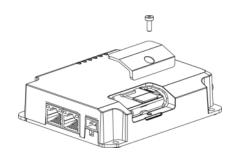
- Power Input: 9-48 VDC (48 VDC is needed for PoE output)
- Power Consumption: Typical 1.8 W (Max 2.2 W)
- Operating Temperature: -40°C to 70°C (-40°F -158°F)
- Relative Humidity: 0% to 95% (non-condensing) at 25°C/77°F

#### 3.1 SIM Card Installation

A. Unscrew the cover of the SIM card then take it off.



 $\ensuremath{\mathsf{B}}.$  Put SIM card into the slot and screw it up.

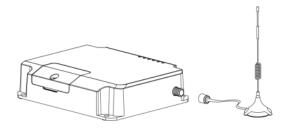


#### 3.2 Antenna Installation

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 Router Installation

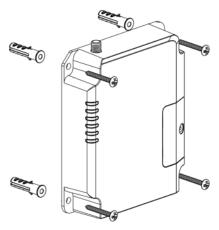
The router can be placed on a desktop or mounted to a wall or a DIN rail.

#### 3.3.1 Wall Mounting (Measured in mm)

Use 4 pcs of M3 × 6 flat head Phillips screws to fix the router on the wall.



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

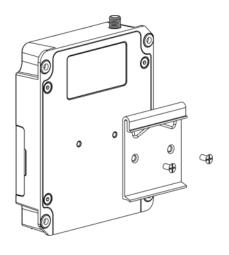


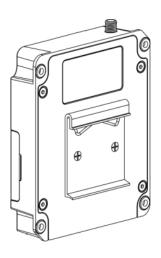
## 3.3.2 DIN Rail Mounting (Measured in mm)

Use 2 pcs of M3  $\times$  6 flat head Phillips screws to fix the mount clip to the router, and then hang the device to the DIN rail. The width of DIN rail is 3.5cm.



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





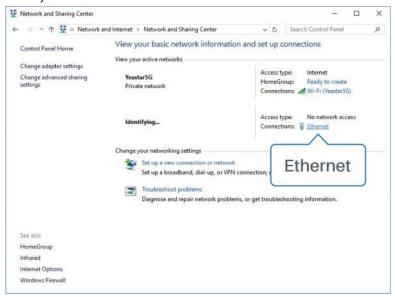


## 4. Log in the Web GUI of Router

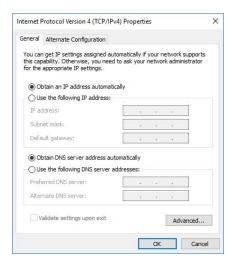
Please connect PC to LAN port of UR32L router. PC can obtain an IP address, or you can configure a static IP address manually. The following steps are based on Windows 10 operating system for your reference.

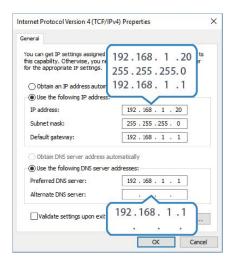
IP Address: **192.168.1.1**Username: **admin**Password: **password** 

A. Go to "Control Panel" → "Network and Internet" → "Network and Sharing Center", then click "Ethernet" (May have different names).



B. Go to "Properties"  $\rightarrow$  "Internet Protocol Version 4(TCP/IPv4)", select "Obtain an IP address automatically" or "Use the following IP address", then assign a static IP manually within the same subnet of the device.





C. Open a Web browser on your PC (Chrome is recommended), type in the IP address 192.168.1.1, and press Enter on your keyboard.



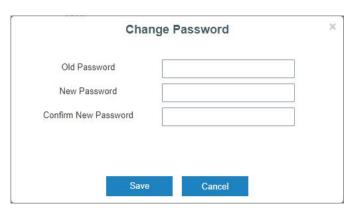
D. Enter the username, password, and click "Login".





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

E. When you login 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.



F. After you login the Web GUI, you can view system information and perform configuration on the router.



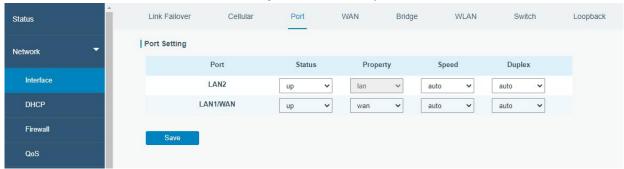


## 5. Network Configuration

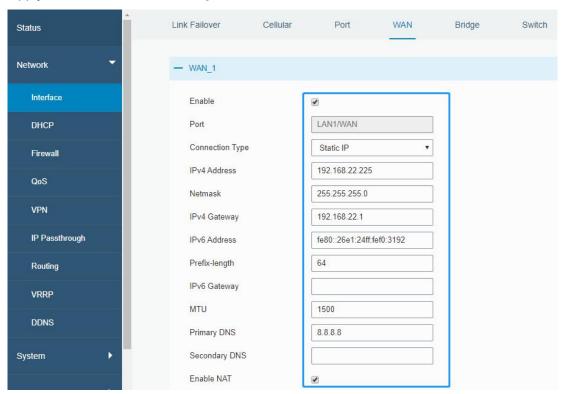
This chapter explains how to connect UR32L to network via WAN connection or cellular.

## 5.1 Ethernet WAN Configuration

A. Go to "Network > Interface > Port" to change LAN1 to WAN port.

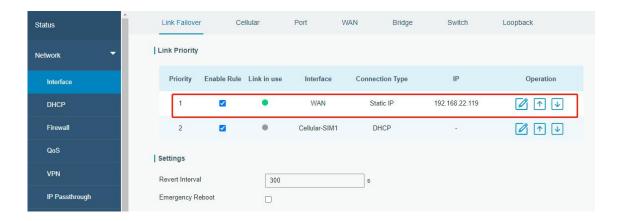


B. Go to "Network > Interface > WAN" to select connection type and configure WAN parameters, click "Save & Apply" button to make the changes take effect.



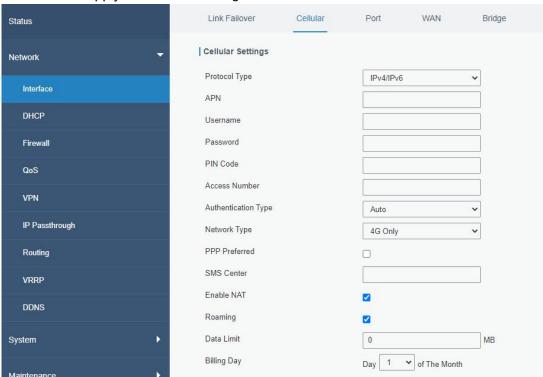
- C. Connect WAN port to another network devices like modem.
- D. Go to "Network > Interface > Link Failover" to rise the WAN priority to 1.
- E. Open your preferred browser on PC, then type any available web address into address bar and see if it is able to visit Internet via UR32L router.



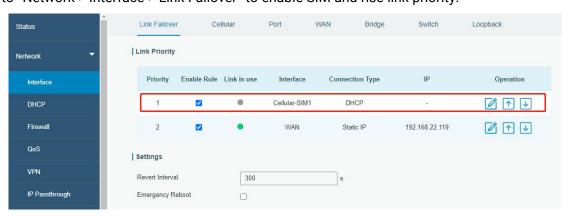


## 5.2 Cellular Connection Configuration

A. Go to "Network > Interface > Cellular > Cellular Setting" to configure APN, PIN code or other cellular info, click "Save" and "Apply" to save the configuration.

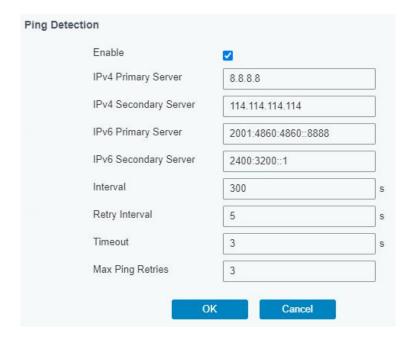


B. Go to "Network > Interface > Link Failover" to enable SIM and rise link priority.

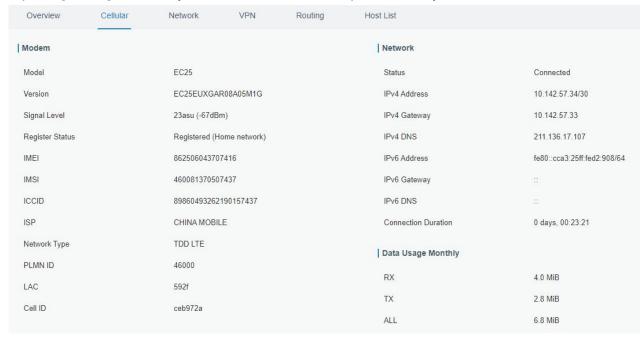




C. Click do to configure ICMP ping detection information.



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



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 UR32L router.

[END]