

5G CPE

UF51

Installation Guide



Safety Precautions

Yeastar 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 Installation Guide only explains the installation of Yeastar UF51 5G CPE. For more functionality and advanced settings, please refer to the relevant documents as below.

Document	Description
UF51 Datasheet	Datasheet for UF51 5G CPE.
UF51 Administrator Guide	IT administrators can 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 Yeastar website: https://www.yeastar.com

Declaration of Conformity

UF51 is in conformity with the essential requirements and other relevant provisions of the CE, FCC, and RoHS.











For assistance, please contact Yeastar technical support: Email: support@yeastar.com

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Revision History

Date	Doc Version	Description
July 28, 2021	V1.0	Initial version



Contents

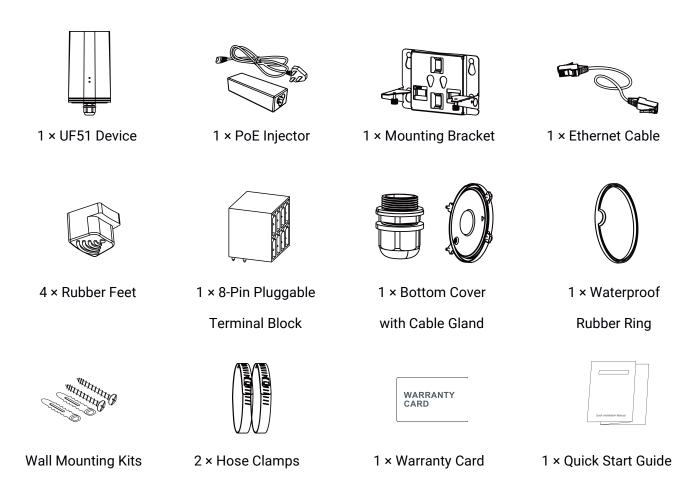
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Packing List

Before you begin to install the UF51 5G CPE, please check the package contents to verify that you have received the items below.



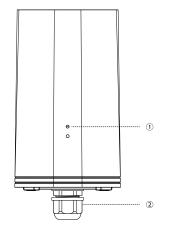
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If any of the above items is missing or damaged, please contact your sales representative.

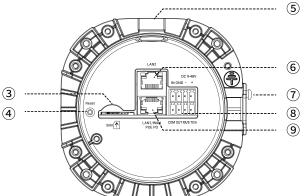


Hardware Introduction

Overview

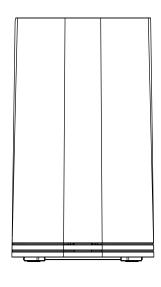


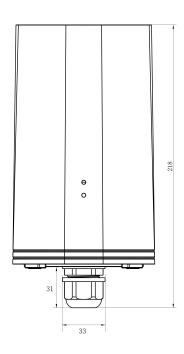
- LED Indicator Area
 STATUS: Power & System Indicator
 5G: Cellular Indicator
- 2 Waterproof Connector

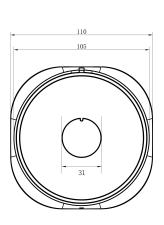


- ③ SIM Slot
- 4 Reset Button
- 5 Vent Plug
- 6 LAN2 Port
- ⑦ Bracket Mounting Screws
- Serial & IO & Power Interface
- LAN1/WAN Port (PoE PD)

Dimensions (mm)

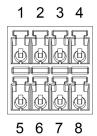








Serial & IO & Power Pinouts



PIN	RS232 /RS485	DI	DO	Power	Description
1		IN			Digital Input
2	GND	GND			Ground
3				(-)	Negative
4				(+)	Positive
4					(9-48V)
5			СОМ		Common
3			COIVI		Ground
6			OUT		Digital Output
7	RXD/B				RS232-RXD
/	KAD/D				RS485-B
8	TXD/A				RS232-TXD
ŏ					RS485-A

LED Indicators

LED	Indication	Status	Description		
Power STATUS System	5 0	Off	The power is switched off		
	System	Orange	Static: The system is startup		
0171100	Status	Green	Static: The system is running properly		
		Red	Static: The system goes wrong		
5G Cellular Status		Off SIM card is registering or fails to register (or there are no SIM cards inserted)			
		Green	Blinking slowly: SIM card has been registered and is ready for dial-up		
			Blinking rapidly: SIM card has been registered and is dialing up now		
			Static: SIM card has been registered and dialed up to 5G network		
		Orange	Static: SIM card has been registered and dialed up to 4G network		
Ethernet	Link Indicator (Orange)	Off	Disconnected or connect failure		
		On	Connected		
		Blinking	Transmitting data		
Port	Rate Indicator	Off	100 Mbps mode		
(Green)	(Green)	On	1000 Mbps mode		



Reset Button

Function	Description		
FullCuon	STATUS & 5G LED	Action	
	Static	Press and hold the reset button for more than 5 seconds.	
Reset	Static → Blinking	Release the button and wait.	
	Off → Static Green	The device resets to factory default.	



Power Supply

UF51 can be powered by 802.3af standard PoE or 9-48VDC. Both power supplies can't be used at the same time.

PoE Supply: Follow the below picture to provide power supply via PoE injector. Besides, UF51 can also be powered by PoE switch.



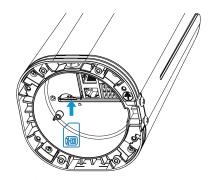
DC Supply: Connect the DC power cable to terminal block, then connect the terminal block to DC interface to power the device.



Hardware Installation

SIM Card Installation

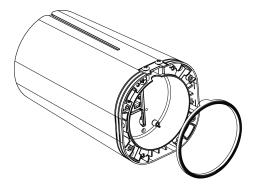
Insert the SIM card into the device according to the direction icon on the device. If you need to take out the SIM card, press into the SIM card and it will pop out automatically.



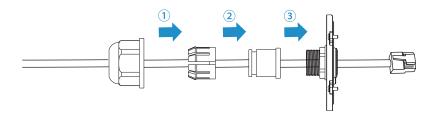
Waterproof Cover & Ethernet Cable Installation

If you need to use UF51 outdoors, the waterproof cover and cable gland should be installed under the bottom of the device.

A. Install the rubber ring into the bottom of the device. Note that the round part needs to face the gap of bottom when installing, otherwise it may cause waterlogged.

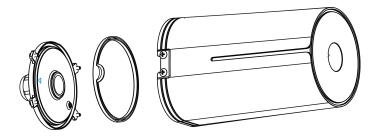


B. Connect a round Ethernet cable to LAN1/WAN port, then pass the Ethernet cable through all parts of the cable gland and the bottom cover.

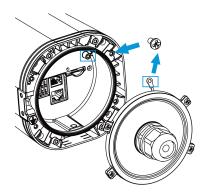


C. Fix the bottom cover to the bottom of the device with 4 screws. Note that the arrow behind the cover needs to face the bracket mounting screws.





Note: Bottom cover can be fixed with the device via the wiring behind the cover.



Device Installation

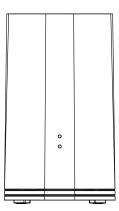
UF51 supports multiple installation methods like desktop, wall mounting, pole mounting, etc. Before you start, make sure that your SIM card has been inserted and all cables have been installed.

Note: Do not connect device to power supply or other devices when installing.

Desktop

When using indoors, pile 4 rubber feet into the gaps at the bottom of the device. The rough surface of rubber feet should face desktop.





Wall Mounting

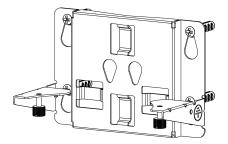
Preparation: mounting bracket(with 2 screws), wall plugs, wall mounting screws and other required tools.

A. Align the mounting bracket horizontally to the desired position on the wall, use a marker pen to mark four mounting holes on the wall, and then remove the mounting bracket from the wall.

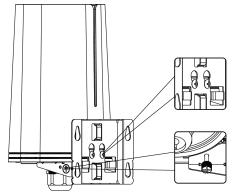


Note: The connecting lines of adjacent points are at right angles.

- B. Drill four holes with a depth of 32 mm by using your drill with a 6 mm drill bit on the positions you marked previously on the wall.
- C. Insert four wall plugs into the holes respectively.
- D. Mount the mounting bracket horizontally to the wall by fixing the wall mounting screws into the wall plugs.



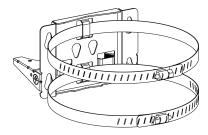
E. Hang the device to the mounting bracket via bracket mounting screws on the back of device, then screw the 2 bracket screws to the bottom of the device.



Pole Mounting

Preparation: mounting bracket(with 2 screws), hose clamps and other required tools.

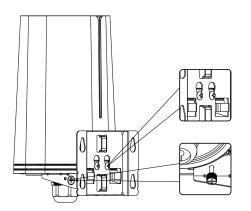
- A. Loosen the hose clamp by turning the locking mechanism counter-clockwise.
- B. Straighten out the hose clamp and slide it through the rectangular rings in the mounting bracket, wrap the hose clamp around the pole.
- C. Use a screwdriver to tighten the locking mechanism by turning it clockwise.

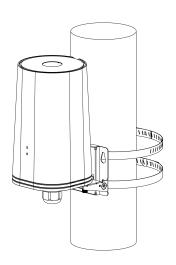


D. Hang the device to the mounting bracket via bracket mounting screws on the back of device, then screw the 2 bracket screws to the bottom of the device.

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Login the Web GUI

UF51 provides web-based configuration interface for management. If this is the first time you configure the device, please use the default settings below:

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

Wireless Access

- A. Enable Wireless Network Connection on your computer and search for access point "Router_******" to connect it.
- B. Open a Web browser on your PC (Chrome is recommended) and type in the IP address **192.168.1.1** to access the web GUI.
- C. Enter the username and password, click "Login".

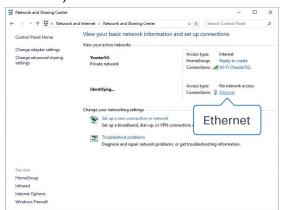


If you enter the username or password incorrectly more than 5 times, the login page will be locked for 10 minutes.

Wired Access

Connect PC to UF51 LAN port directly or through PoE injector. The following steps are based on Windows 10 operating system for your reference.

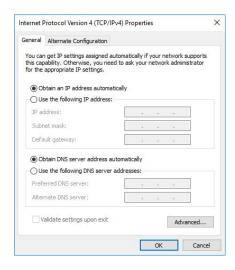
A. Go to "Control Panel" \rightarrow "Network and Internet" \rightarrow "Network and Sharing Center", then click "Ethernet" (It may have different names).

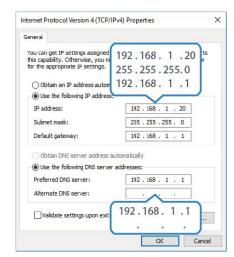


B. Go to "Properties" \rightarrow "Internet Protocol Version 4(TCP/IPv4)", select "Obtain an IP address automatically" or "Use the following IP address", then assign a static IP manually within the same subnet of the device.

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- C. Open a Web browser on your PC (Chrome is recommended) and type in the IP address **192.168.1.1** to access the web GUI.
- D. 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.