

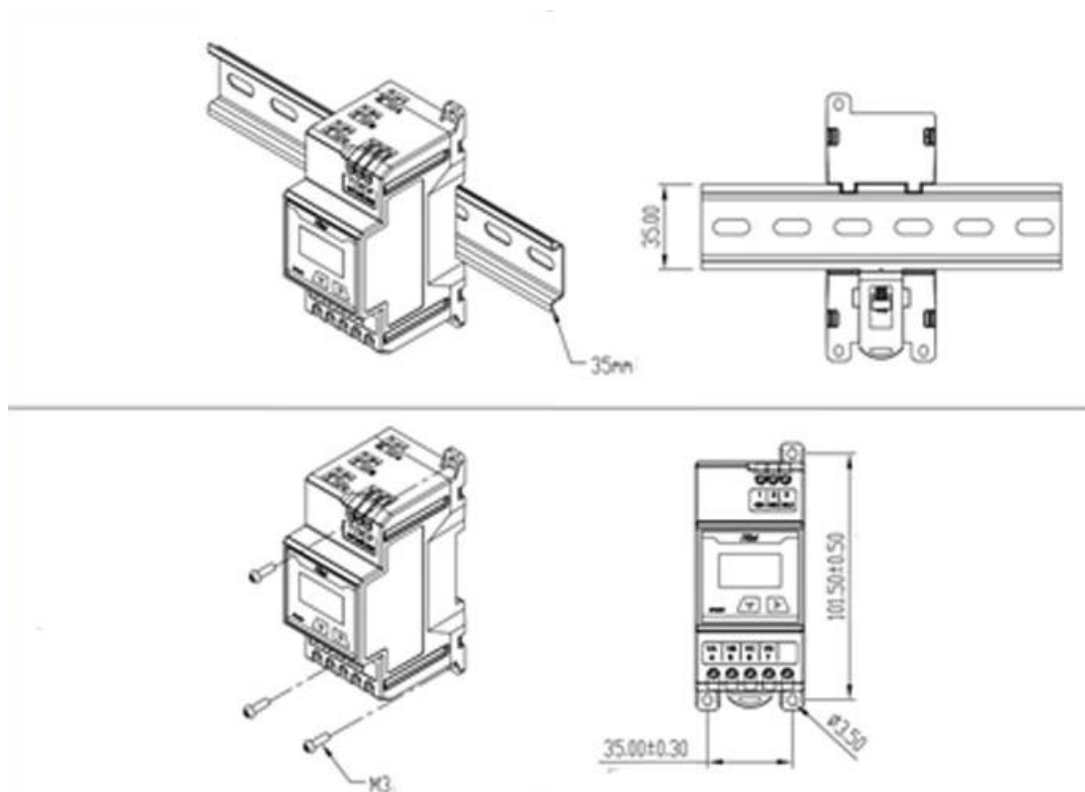
Electricity Consumption Kit Installation Guide

Table of Contents

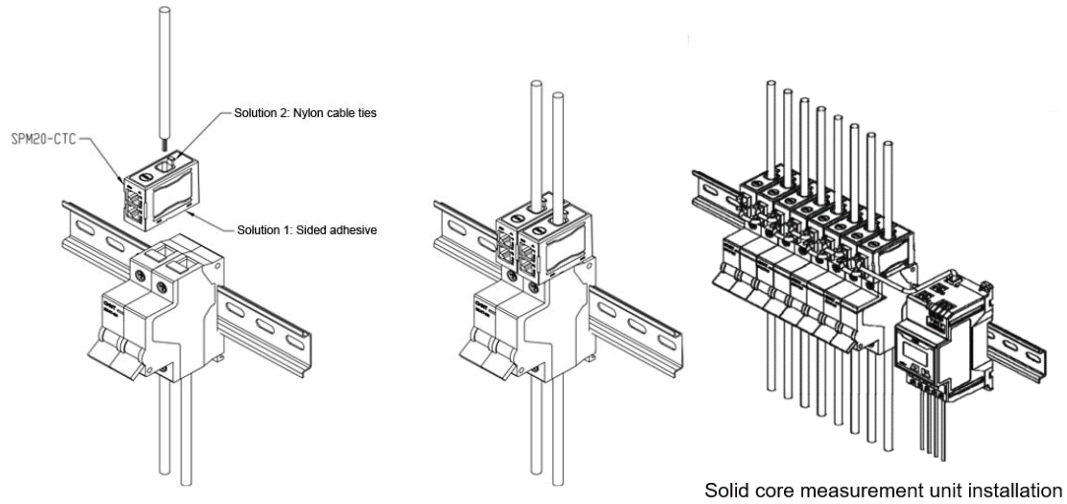
AC Multi-Channel Energy Meter	1
Converter	5
Gateway	7

AC Multi-Channel Energy Meter

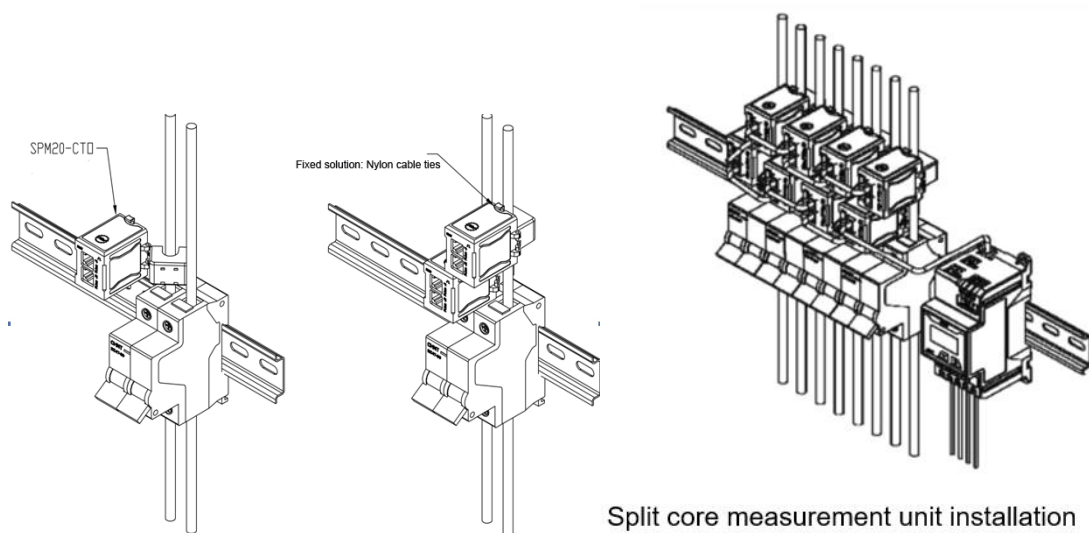
Controller installation



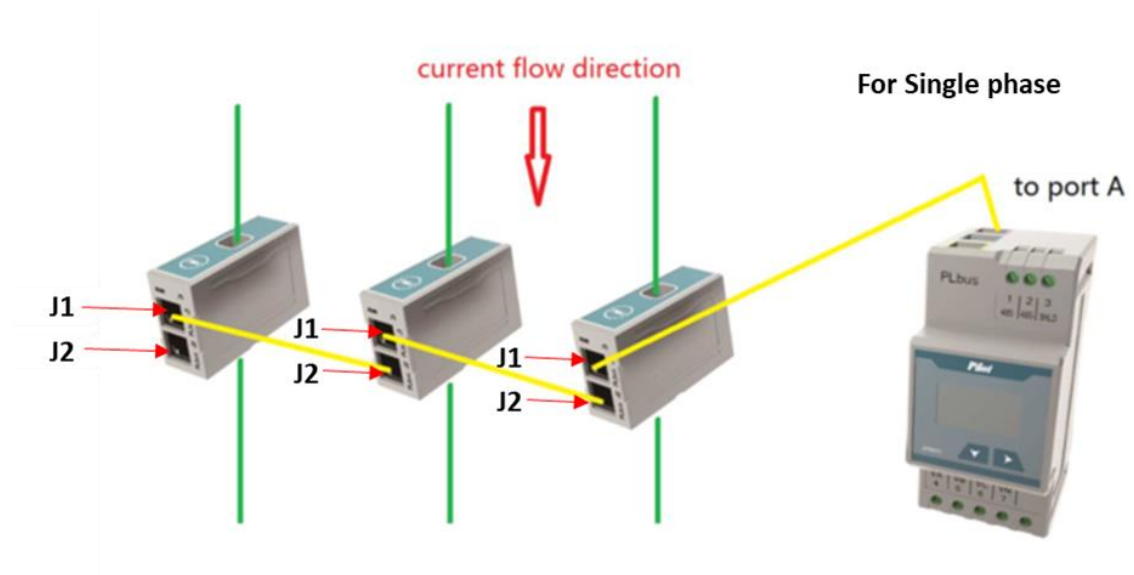
Solid core measurement unit installation



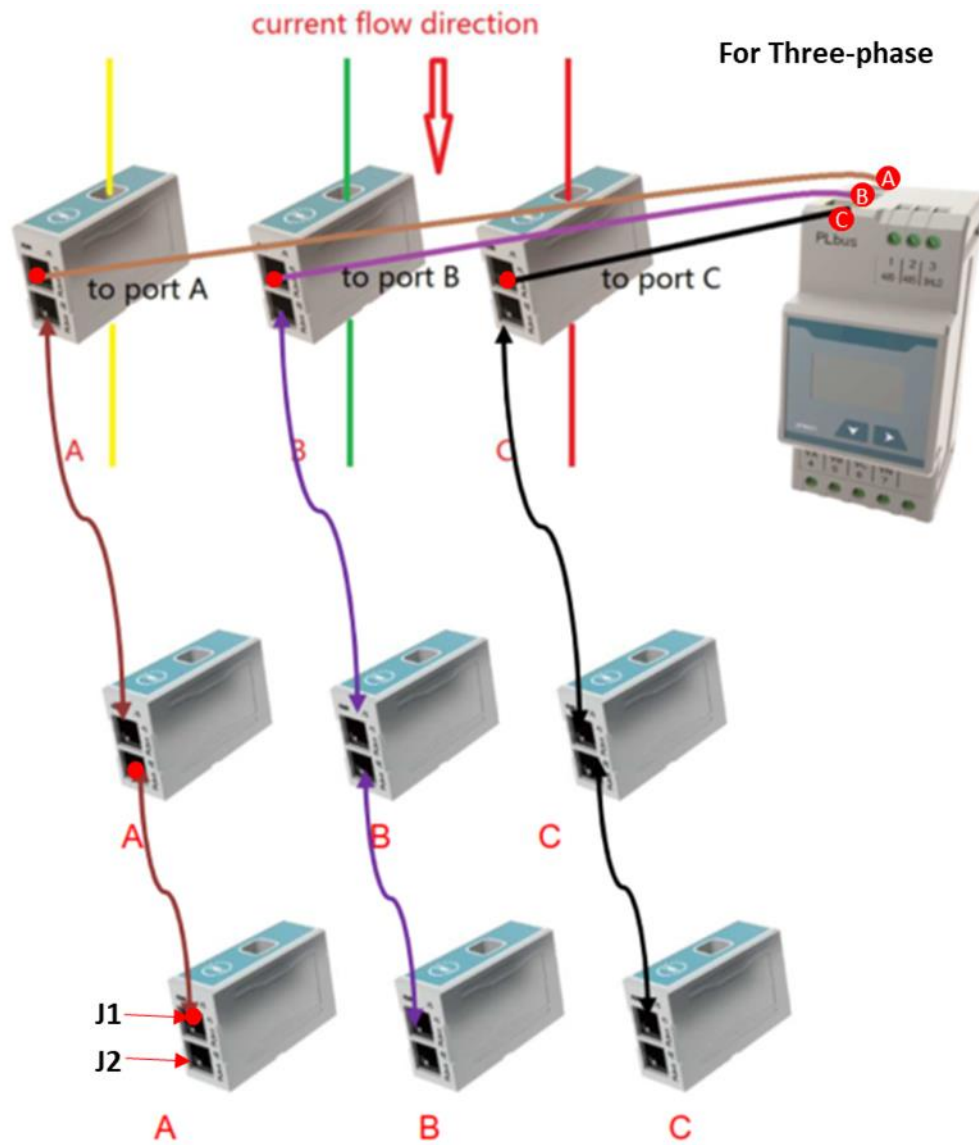
Split core measurement unit buckle installation



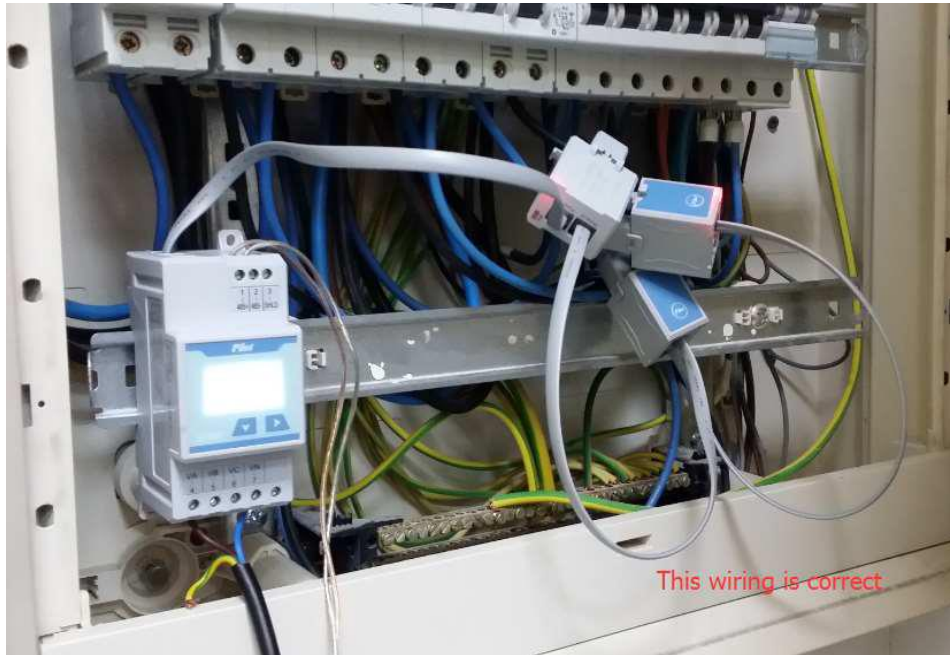
Attention: Forbid hot plugging RJ12 connect to PLbus, because of the voltage passed safety range on RJ12 after SPM20 power on.



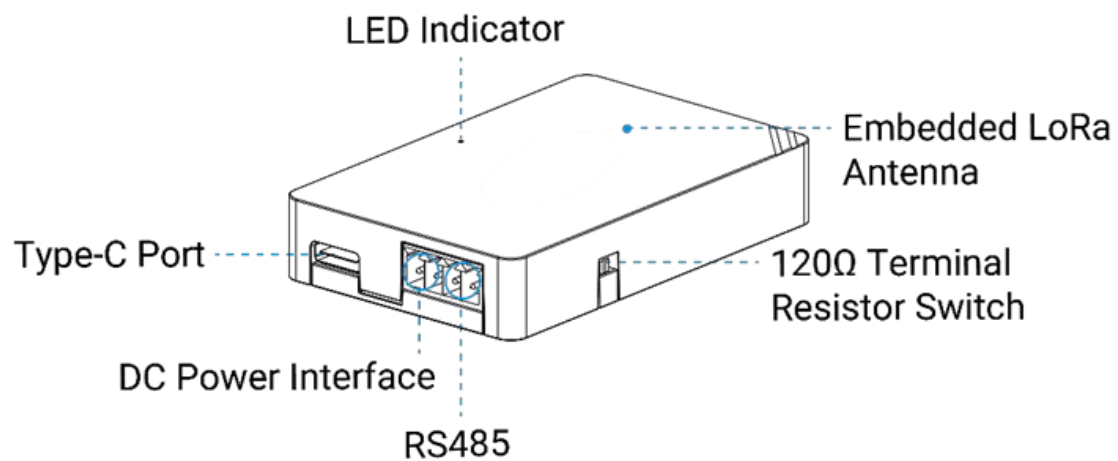
Note: Port J1 of the CT connect to the controller, port J2 of the CT connect to the J1 of the next CT.



Note: each single loop of RJ12 communication cable from main module to the end CT, can not exceed 300cm.



Converter



120Ω Terminal Resistor Switch: the device will add a 120Ω termination resistor to avoid data-corrupting reflections if RS485 data rate is high or cable length is long.

LED and Reset Button

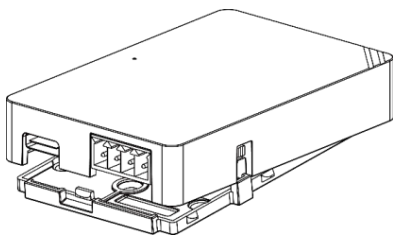
The reset button is inside the device.

Function	Action	LED Indication
Work Status	System is functioning properly	Static On
	Fail to acquire data from data interfaces	Slowly Blinks
	Device upgrade or system error	Static On
Reboot	Press and hold the button for more than 3 seconds.	Slowly Blinks
Reset	Press and hold the button for more than 10 seconds.	Quickly Blinks

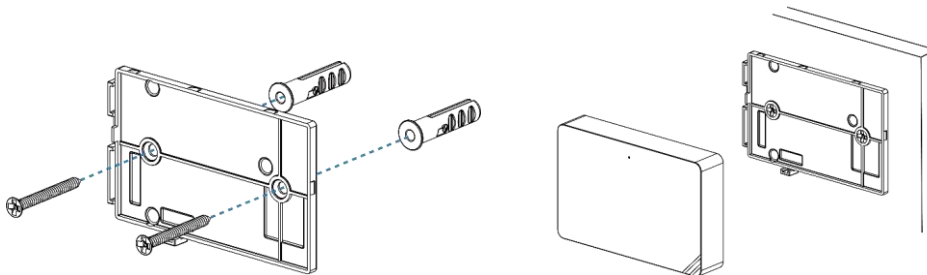
Installation

UC100 device can be placed on a desktop or mounted to a wall.

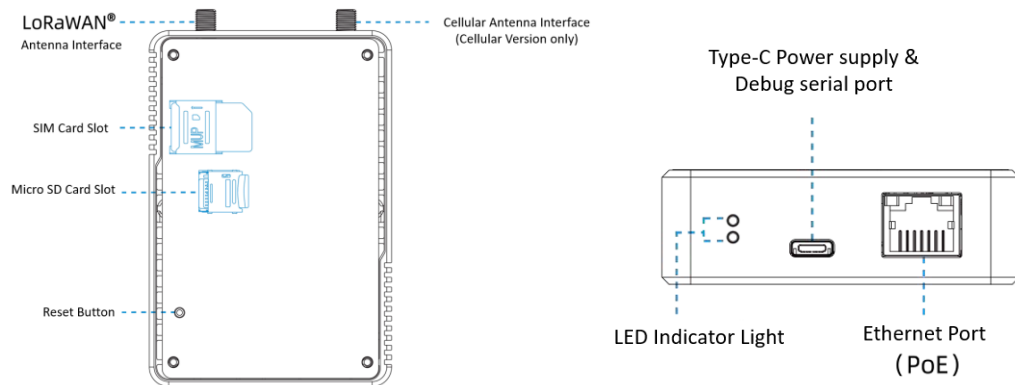
1. Take off the back cover of UC100 device, and fix the wall plugs into the wall according to the drilling position as referred.



2. Screw the cover on the mounting positions and install back the device.



Gateway



LED Type	Indicator	Status	Description
SYS	System status	off	The system is booting up
		Green light	Constant light: System is operating normally
		Red light	System error
LoRa	LoRa status	off	Packet forwarding mode inactive
		Green light	Packet forwarding mode active
ETH	Link status (orange light)	off	Not connected/ Disconnect
		Constant light	Connected

		flickering	Data is transmitting
	Data transmission	Constant light	100 Mbps mode
	status (green light)	off	Other transmission rate mode

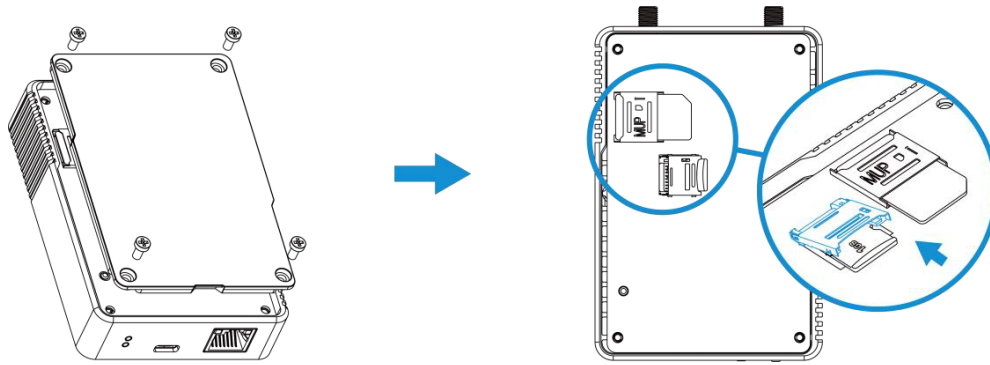
Restoration Button

Function	Description	
	Light Status	Operation Guidance
Reset to the factory settings	Constant light	Press and hold the restoration button for more than 5 seconds
	Green constant light→flickering	Release the button and wait
	Off→constant light	Restore gateway to factory settings

SIM Card & Micro SD Card Installation

松开螺丝取下设备上盖，将 SIM 卡或 Micro SD 卡插入对应卡槽。

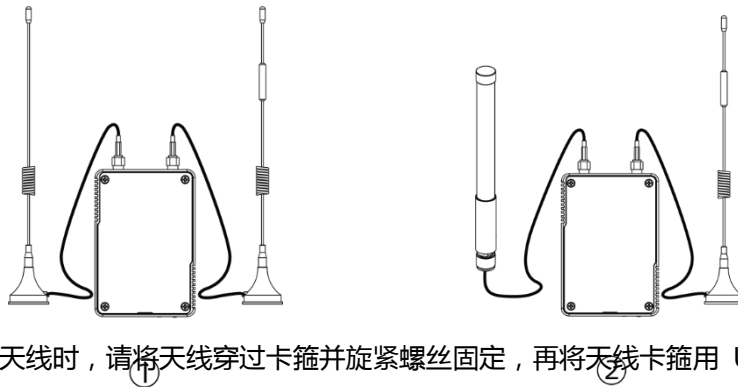
注意：网关不支持热拔插，拔插卡前请将设备断电。



Antenna Installation

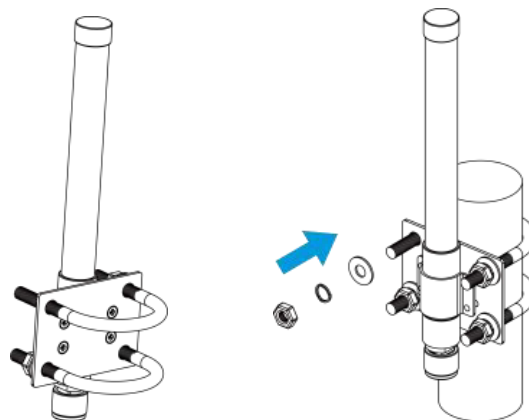
将 LoRa®天线或蜂窝天线旋进天线接口。

注意：天线应垂直安装并远离障碍物。



固定玻璃钢天线时，请将天线穿过卡箍并旋紧螺丝固定，再将天线卡箍用 U 形螺栓固定到目

标杆上，用螺 母、弹垫和平垫锁紧。

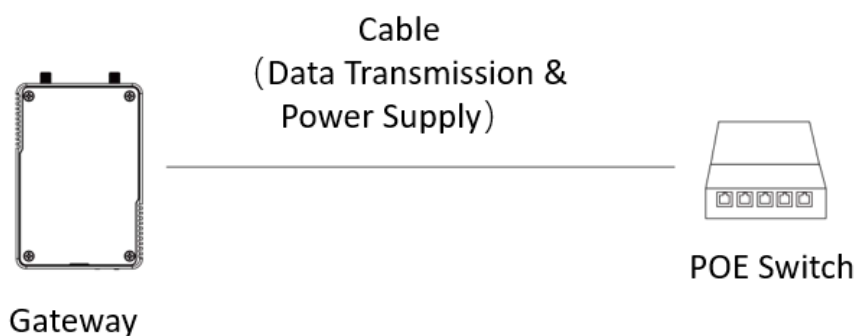


Power Supply

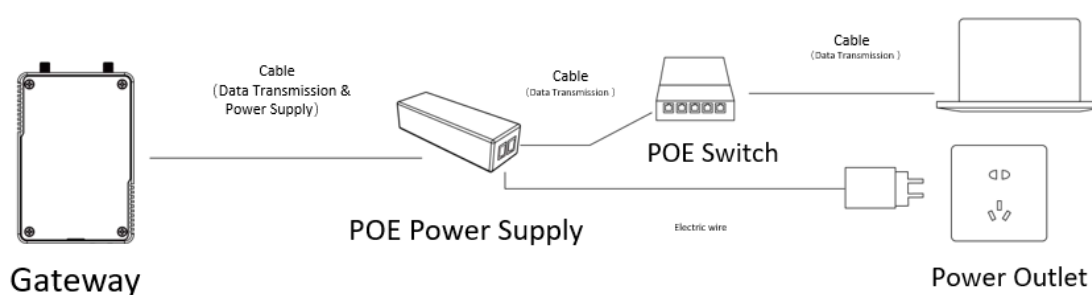
The Gateway 支持 PoE 802.3af 标准，可使用 PoE 交换机或 Type-C 5V 供电，可任选一

种方式。若同时接入 Type-C 和 PoE 网口，优先使用 PoE 网口供电。

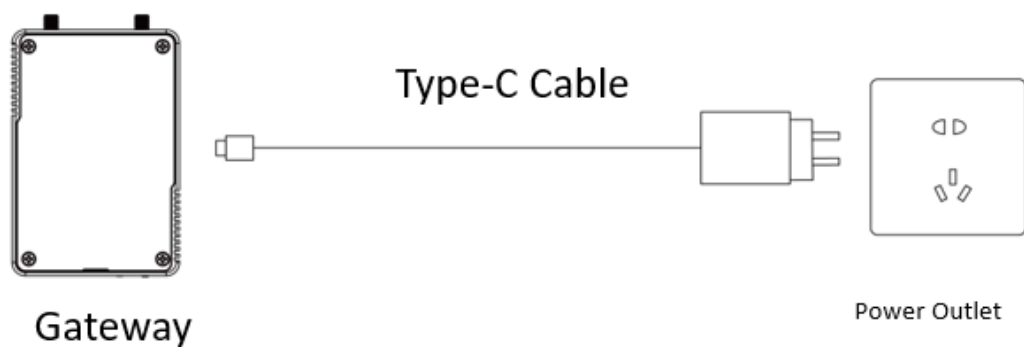
POE Switch Power Supply



PoE Power Supply



Type-C 接口供电

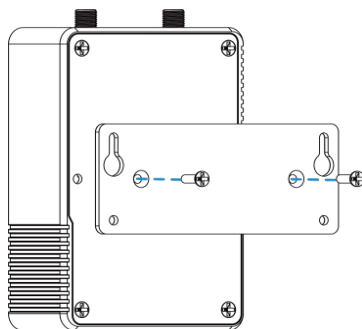


注意：上电时必须先将网关端的网线接好再接 PoE 供电设备，否则可能损坏 PoE 供电设备或网关。

Installation

设备支持桌面放置或壁挂安装。安装前请确保配件已全部安装，产品已完成配置并断电。 1.

使用 2 颗 M3 安装板固定螺丝将壁挂安装板固定到设备上。



2. 在墙上根据壁挂安装板的孔位钻 4 个孔（孔位如下图虚线所示），将膨胀螺栓打入墙内。

3. 先用上方 2 颗 M3 壁挂螺丝将设备固定（注意不要完全锁紧），再锁入剩余 2 颗螺丝，最后全部锁紧完成安装。

