

SR-GP series Solar dedicated IOT module



Product introduction:

SR-GP series is the third generation of solar IOT module developed by SRNE, and upgrades hardware and software by combining with the latest industrial needs to better serve customers.

This series includes GPRS, CAT.1(4G), NB-IOT and other communication solutions, providing different options according to the customer needs and local network conditions.

The module is characterized by simple installation and convenient use. It is suitable for all solar street lamp products. Meanwhile, it upgrades the power consumption management for the application of solar energy, and adopts the low-power control technology to save energy to the greatest extent.

Modules of this series adopt the multiple stabilization mechanism and network reconnection mechanism, thus significantly reducing the probability of module disconnection.

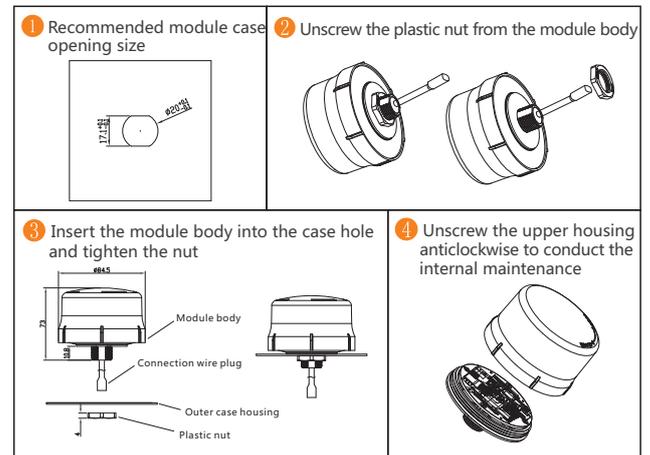
In addition, it is easy to replace the SIM card of this module, and foreign users or users who need to their own card in special areas can use it conveniently.

SR-GP series can cooperate with SRNE solar controller to achieve the remote data collection and control functions, and provide the network platform support to realize the full solution service.

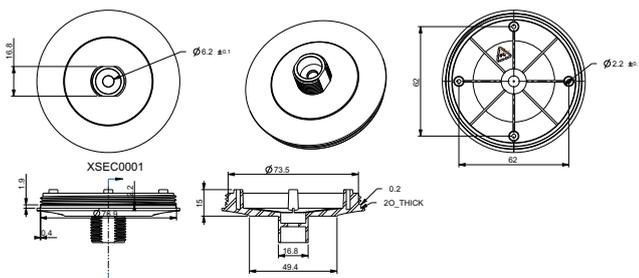
Product features:

- ◆ Patented appearance, easy to use, simple installation;
- ◆ Waterproof structure, made of special materials, and used outdoors for a long time;
- ◆ Built-in antenna, and no additional antenna required;
- ◆ Removable structure, easy to replace the SIM card;
- ◆ Industrial grade components with the ability to work at -35°C-+65°C for a long time;
- ◆ Plug and play, no configuration required, and available after the power is on;
- ◆ Convenient power supply, direct power from the equipment end, no external power supply required;
- ◆ Simple networking, no auxiliary equipment required, direct access to the public network;
- ◆ Stable mechanism, heartbeat detection, networking retry;
- ◆ Data safety, private protocol, data verification;
- ◆ Worry-free fees, annual traffic package, economical and beneficial, no need to worry about traffic exceeding the standard, and users can directly renew in the platform.

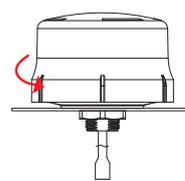
Installation diagram:



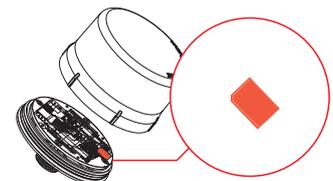
Product dimension:



Installation method of SIM card:



Step 1. Anticlockwise rotate the upper cover



Step 2. Insert the card, and pay attention that the SIM card notch face inwards.

Product parameters:

	SR-GP-30	SR-GP-40	SR-GP-50
Rated voltage	4.2V	4.2V	4.2V
Static power consumption	< 50mA	< 35mA	< 20mA
Peak current	< 2A	< 2A	< 0.5A
Serial baud rate	9600bps	9600bps	9600bps
Data input method	RS485	RS485	RS485
External data port	4-core waterproof wire	4-core waterproof wire	4-core waterproof wire
Data output method	GPRS	4G-Cat1.	NB-IOT
Operator frequency band	GSM : 900/1800MHz	LTE-FDD : B1/B3/B5/B8 LTE-TDD : B34/B38/B39/B40/B41	B3/B5/B8
Domestic operator	China Mobile	China Mobile/China Unicom	China Telecom
Wireless data rate	Max 85.6Kbps	Max 10 Mbps	Max 25kbps
SIM card type	nano	nano	nano
Wireless type	Built-in antenna	Built-in antenna	Built-in antenna
Equipment end protocol	ModBus unvarnished transmission	ModBus unvarnished transmission	ModBus unvarnished transmission
Network layer protocol	ModBus-TCP	ModBus-TCP	ModBus-TCP
Data uploading cycle	5 minutes (default)	5 minutes (default)	5 minutes (default)
Firmware upgrade	Remote air upgrade	Remote air upgrade	Remote air upgrade
Quantity of equipment connected	1	1	1
Waterproof level	IP65	IP65	IP65
Operating temperature	-35°C ~ 65°C	-35°C ~ 65°C	-35°C ~ 65°C
Weight	110g	120g	110g
Product dimensions	85*85*73		