



NJ-iot401

Product use manual of Solar street lamp Internet of Things controller

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I. Product function and features

The Solar Internet of Things module is a communication module that can be adapted to a solar street lamp controller block, the module has 4G Cat.1 communication function, can remotely connect to the cloud server, at the same time, the module has an infrared / RS485 / TTL communication interface, which can complete the solar controller distribution and reading of the parameters and states of solar controller. Main performance characteristics of the controller:

- Cat1. The wireless communication
- Adapt to 12V / 24V voltage inputs
- It can control most domestic mainstream solar controllers through RS232 communication
- Computer terminal interface and mobile terminal Wechat small program remote control and information reading
- You can remotely switch the load to adjust the power of the load
- Read the voltage / current / power of the battery / load / solar plate inside the controller
- Fault alarm, battery / sun panel / load fault alarm



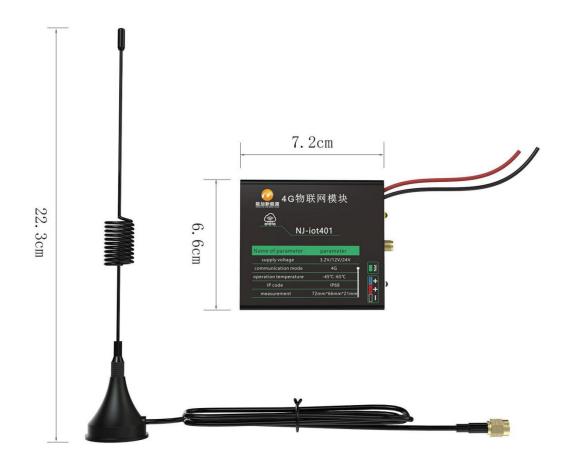
- Remote distribute and read parameters for multiple or single controllers
- The module has the base station positioning function
- Support for a remote upgrade of the firmware

II. Appearance size

Length, width and height =72mm *66mm *21mm







III. Product Parameter

open circuit losses	10mA(12V);6mA(24V)	
service voltage	12V/24V	
Antenna type	outlay	
communication mode	4G-Cat.1	
Carrier operator	Three netcom	
working temperature	-35° C~65° C	



levels of protection	IP68
size (mm)	72mmx66mmx21mm

IV. Status indication

pilot lamp	state	function declaration
Network indicator light (green) Network indicator light (green)	Very slow (bright for 0.3s, dead for 5s)	No SIM cards were detected
	Slow flash (bright 0.3s, out 2s)	Normal, boot
	Medium flash (bright 0.3s, out 1s)	Connecting the network
	Flash flash (bright 0.1s, out 0.1s)	The network is connected



V. Mode of connection



For safety, please follow the wiring order of load, battery and optical battery.

* Antenna should be avoided from directly touching with metal (including shielded items) Raw, can not be placed in a completely closed iron container.In addition, the installation should be fixed firmly, and avoid free from line scratches and insulation damage.

a) connected load



At this time, the controller has not started working, and the controller does not react after the connection is completed.

b) Connect the battery

Before connecting the battery, ensure that the battery voltage is above 9V to start the controller. If it is unified is 24V, to ensure that the battery voltage is not less than 18V. After the battery connection is complete, control the battery the manufacturer will start to work.

c) Connect the optical panel

The controller can apply to 12V or 24V standard specification solar modules, as can solar cell modules with an open-circuit voltage not exceeding the specified maximum input voltage are applicable.solar energy the maximum power point voltage of the assembly should be lower than the battery voltage.

d) The four-core wire of the controller is connected to the four-core wire of the module to observe the module indicator lamp.

Fast flash for online.

e) Connection antenna

Attach the antenna to the housing and connect the machine through the antenna extension.



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VI. Technical support



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