



NJ-iot304

Product use manual of Cat.1 Municipal  
Electric dual-lamp controller

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## I. Product function and features

NJ-IoT-304 street lamp controller is built in the cellular network, the real-time online rate of single lamp is higher than similar products on the market, only cost around 180 KHz of the frequency band, deployed directly to LTE networks to reduce deployment costs and achieve smooth upgrades. 4G-Cat.1 it is a new technology in the field of LTE, with wide coverage, many connections, high rate, low cost and excellent architecture.

NJ-IoT-304 street lamp controller realizes wireless communication for input and output current / voltage, active power, apparent power, power, frequency, power factor, temperature, switch status and data collection and reporting; main performance characteristics of the controller:

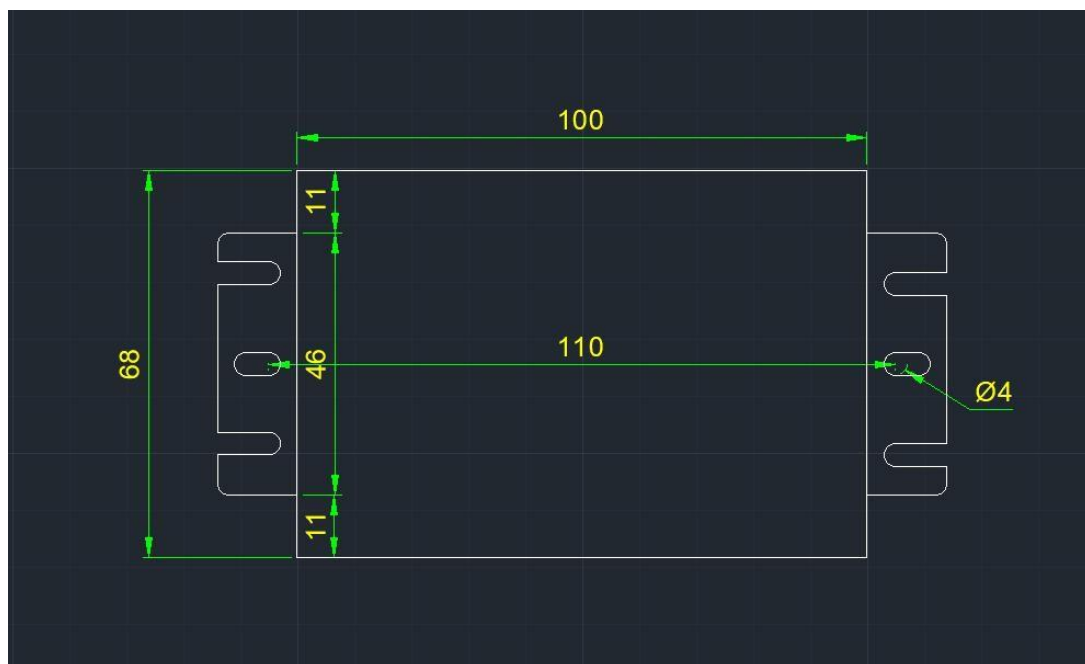
- 4G-Cat.1 Wireless communication mode;
- At the same time with 0-10V, PWM dimming output;
- External antenna, transmit the power of  $23 \pm 2\text{dBm}$ , accept the sensitivity of  $-129 \pm 1\text{dBm}$ , pass the Huawei compatible certification;
- The success rate of one network connection is above 99.9%;

- Realize current / voltage, active power, dependent power, power, frequency, power factor and other multi-functional detection;
- High-precision data collection scheme, to meet the national electricity meter metering standard;
- 1 Road 0%~100% arbitrary proportion of 1-10V / PWM infinite dimming output function;
- With overcurrent / overpressure / underpressure, overload protection, lamp condition and line detection, default lighting and other functions;
- Actively report various faults; including lights, drives, line faults;
- Support various custom network analysis data collection functions;
- Load lightweight system RTOS, support data concurrent fault tolerance function, cell reselection, different-frequency networking, remote upgrade...
- Suitable for switching and dimming of various power LED lights and lamps; many support power drives and line input relays
- Type and turn off the light mode;
- Overload protection design based on safety;
- Edge computing, support local policy; network exception / no state local cloud configuration policy;
- Support the timing switch machine, the time control mode;

- Frequency range: B5 / B8 / B3;
- Plug and play, support for scanning and convenient installation and registration;
- Industrial grade working temperature:  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ ;
- IP66 waterproof grade;
- High lightning protection level  $\pm 6\text{KV}$  (line to line);
- External antenna; simple and convenient and beautiful installation;
- Responding to instructions sent by the center within 3 seconds.

## II. Appearance size

Length, width and height =100mm \*68mm \*40mm





### III. Technical parameter

open circuit losses	<1.5W
service voltage	AC: 96~264V
communication mode	4G-Cat.1
Carrier operator	Full netcom
working temperature	-35° C ~ 65° C
levels of protection	IP67

size (mm)	72mmx66mmx21mm
Antenna type	outlay

## Output one

Maximum load current	4A
power	≤400W
The dimming mode	0-10V/PWM

## Output two

Maximum load current	4A
power	≤400W
The dimming mode	0-10V/PWM

## IV. Installation instructions

For safety, you must operate in case of power failure. Xiamen Nengjia New Energy Technology Co., Ltd. / [www.xmnengjia.com](http://www.xmnengjia.com)

\* 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) Connect the drive power supply

Power supply support 0-10V dimming or PWM dimming. Output of the single-light controller

End to the input of drive power supply. The dimming phase of the single-light controller and the dimming phase of the driving power supply linkage. Output 1 shall correspond to a power supply with dimming 1 and output 2 is the same as output 1 line method.

b) connected load

The output end of the drive power supply is connected to the light source, and the power supply output is DC current.

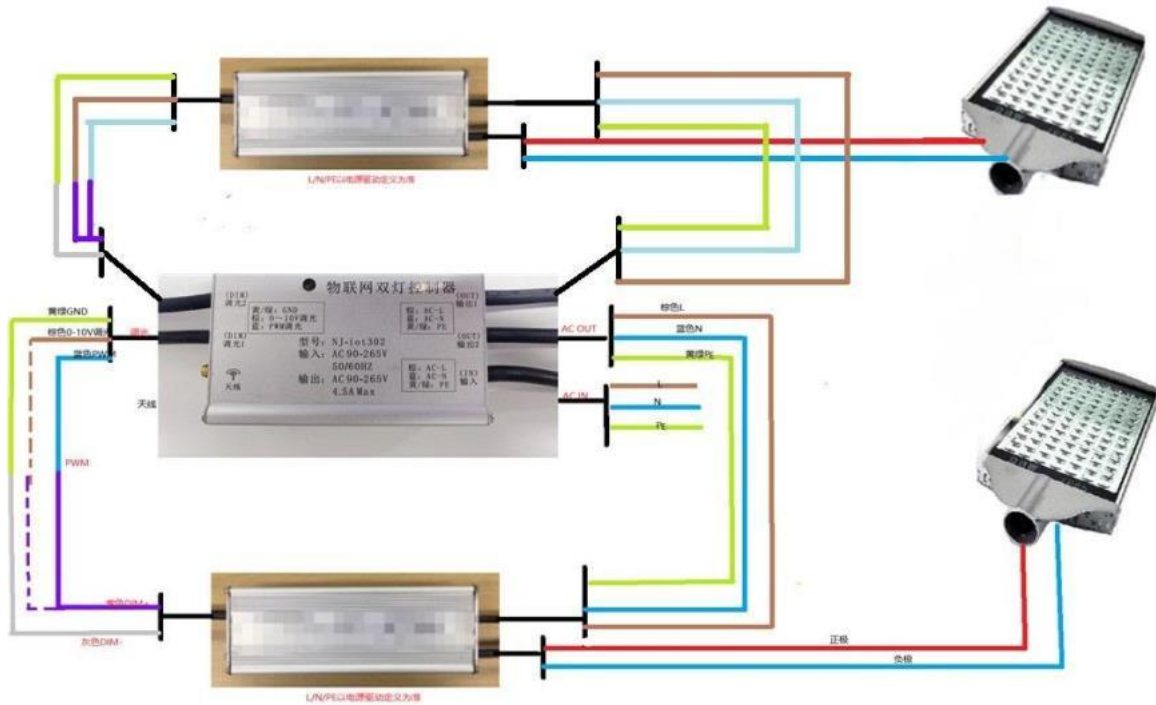
c) Access to mains power

If steps A and B are completed, the input terminal of the single lamp controller is connected to the market.

The light is turned on by default.

\* In addition, the installation should be fixed firmly, and avoid the line scratches and insulation damage.

## V. Mode of connection



## VI. Technical support