



## NJ-iot303

Product use manual of Cat.1 mainlamp controller

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#### I. Product function and features

NJ-loT-303 street lamp controller is built in cellular network. The real-time online rate of single lamp is higher than similar products on the market, which only consumes about 180KHz frequency band and is directly deployed in LTE network to reduce deployment costs and achieve smooth upgrades.4G-Cat.1 is a new technology in the field of LTE, with wide coverage, multiple connection, high rate, low cost and excellent architecture.

NJ-IoT-303 street lamp controller realizes wireless communication, collects and reports input and output current / voltage, active power, apparent power, power, frequency, power factor, temperature, switch lamp status and data; main performance characteristics of the controller:

- 4G-Cat.1 Wireless communication mode;
- At the same time with 0-10V, PWM dimming output;
- External antenna, transmitting power of 23 ± 2dBm, accept the
  sensitivity of-129 ± 1dBm, through huawei compatible certification;
- The success rate of one network connection is above 99.9%;



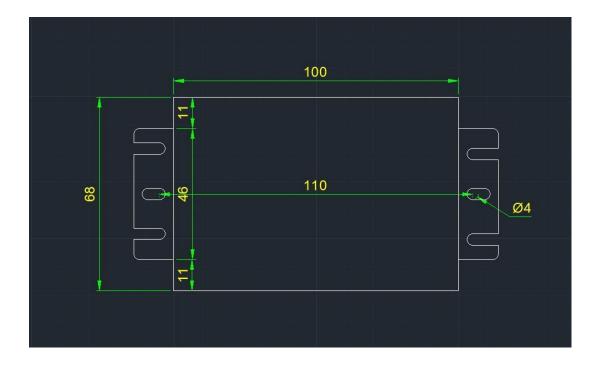
- Realize current / voltage, active power, apparent power, power, frequency, power factor and other multi-functional detection;
- High-precision data collection scheme, to meet the national electricity meter metering standard;
- 1 Function of 1-10V / PWM infinite dimming output at 0%~100%;
  with overcurrent / over voltage / undervoltage, overload protection,
  lamp condition and line detection, and default lighting Light and
  other functions;
- Active reporting of various faults; including lights, drives, line faults, etc.; 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; support for power drive and line input relay multiple lights off modes;
- Overload protection design based on safety;
- Edge computing, support local policy; network exception / no state local cloud configuration policy;



- Support timing switch, time control mode; frequency band: B5 / B8 /
  B3;
- Plug and play, support for scanning and convenient installation and registration;
- Industrial grade working temperature:  $-40^{\circ}$ C ~ + 85 °C;
- IP66, waterproof grade;
- High lightning protection grade ± 6KV (line to line); external antenna;
  simple, convenient and beautiful installation;
- Response to the instructions sent from the center within 3 seconds;

## II. Appearance size

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







# III. Technical parameter

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



size (mm)	72mmx66mmx21mm
Antenna type	outlay
The dimming mode	0-10V/PWM
power	≤400W

### IV. Installation instructions

For safety, you must operate in case of power failure.

- \* Antenna should avoid being directly connected with metal (including articles with shielded function), and should not be placed in a completely closed iron container. In addition, installation should be firmly, and avoid line scratches and insulation damage.
  - A) Connect the drive power supply



# V. Technical support



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