

CNODE

Zhaga IOT2

The CNODE Zhaga IOT2 is a compact, low-cost smart lighting controller for outdoor luminaires. It features builtin 4G LTE connectivity and a global flat-rate eSIM, enabling remote streetlight control without extra SIM or gateway management. Supporting DALI D4i and the Zhaga Book 18 socket, it offers plug-and-play installation and reliable performance for smart city lighting. With open payload data and IOT industry-standard MQTT, it ensures easy integration into a wide range of smart city platforms.



- ✓ **COMPACT DESIGN**
- ✓ **AMBIENT LIGHT SENSOR**
- ✓ **GLOBAL LTE 4G COVERAGE**
- ✓ **OPEN PAYLOAD**
- ✓ **ZHAGA BOOK 18 SOCKET**
- ✓ **DALI 2, D4i**
- ✓ **FREE DATA 5Y OR 10Y**
- ✓ **MQTT**

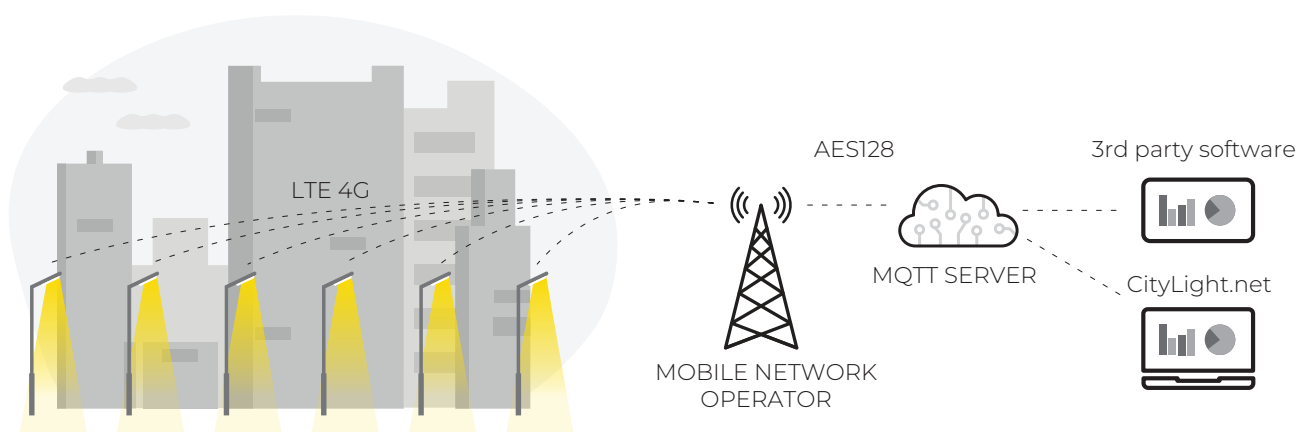


IK08 IP66



MQTT

HOW IT WORKS



SPECIFICATION

PRODUCT CODE

HLCCZIOT2

DIMENSIONS AND WEIGHT

Diameter: 70 mm

Height: 25 mm

Weight: 65 g

ENCLOSURE

IP class: IP66

Impact resistance: IK08

UV resistant

Material: polycarbonate

Rubber Isolation class: Class II

MOUNTING

Lamp: ZHAGA Book-18 standard
receptacle

POWER SUPPLY

Voltage: 12-24 VDC

Backup power supply: 0,5F

Power consumption: <1,5W

ENVIRONMENTAL REQUIREMENTS

Operating temperature: from -40 to +75 C

Storage temperature: from -40 to +75 C

Relative humidity: <95% non-condensing

AMBIENT LIGHT SENSOR (OPTIONAL)

Range: 0 - 256 000 Lx

Resolution: 1 Lx

INTERFACES

DALI Interface

Version: 2/ D4i

Type: Master

Max current: 50 mA

FEATURES

Real time clock with backup power supply

Built-in memory

Astronomical clock for dimming profiles

Stand alone operation

STANDARDS

Directive 2014/35/EU Low Voltage Directive (LVD)

EN 62311: 2008

EN 61347-1:2015 (IEC 61347-1)

EN 61347-2-11

EN 62368-1:2014/AC:2015

EN 61984:2009

EN 60529

EN 62262

Directive 2014/30/EU Electromagnetic compatibility (EMC)

EN 301 489-1 V2.1.1

EN 61000-3-2:2014

EN 61000-3-3:2013

EN 301 489-3 V2.1.1

EN 301-489-52 V1.1.0

EN 55015:2013+A1:2015

EN 61547:2009

Directive 2014/53/EU Radio Equipment (RED)

EN 300 440 V2.1.1

EN 301 511 V12.5.1

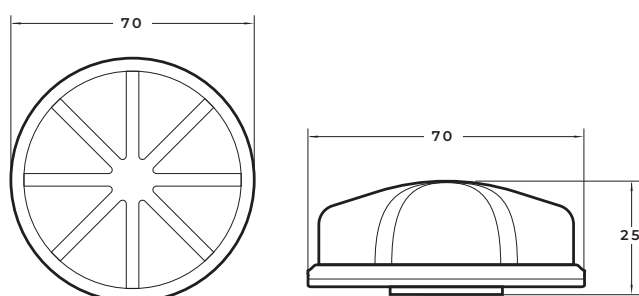
EN 300 328 V2.1.1

EN 300 220-2 V3.1.1

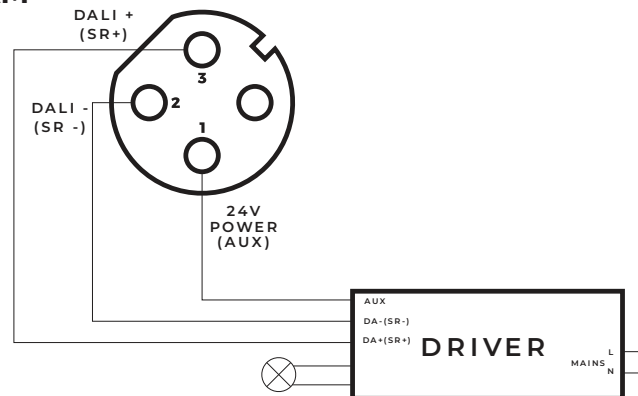
Directive 2011/65/EU RoHS directive

Directive 2012/19/EU WEEE directive

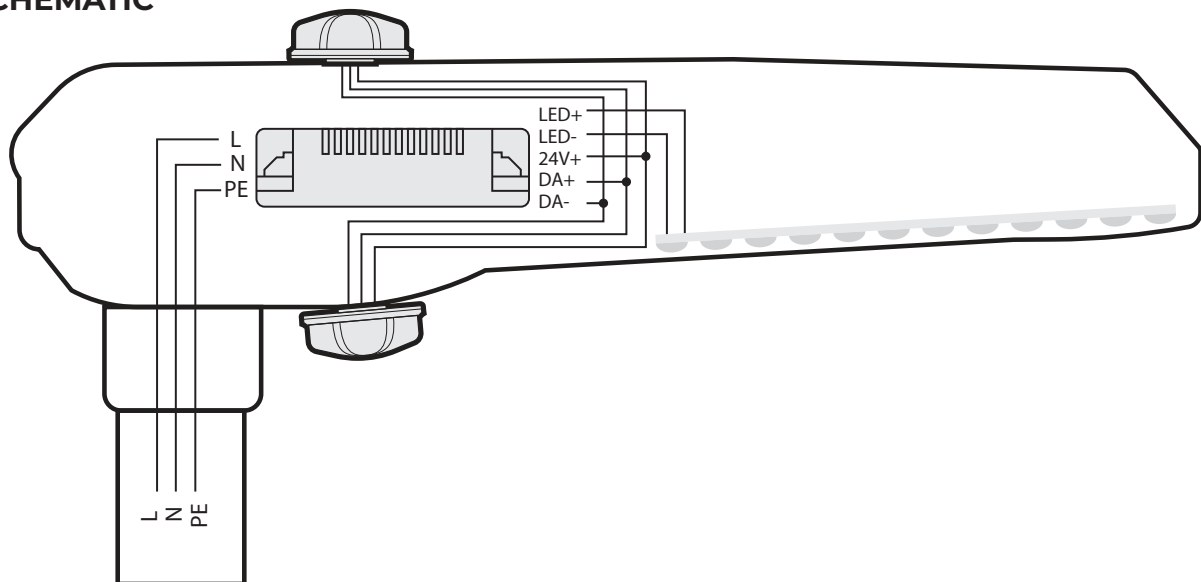
DIMENTIONS



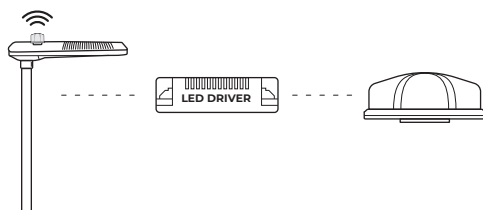
WIRING DIAGRAM



SCHEMATIC



LUMINAIRE DATA



DATA:

- Dimming level/status (%)
- Mains Voltage (V)
- Mains Current (mA)
- Power (W)
- LED voltage (V)
- LED current (mA)
- Driver working hours (h)
- Day Energy Consumption
- Active (Wh)
- Total consumption (kWh)

CONTROL:

- DALI2
- Dimming level 0-100%
- Dimming step: 1%

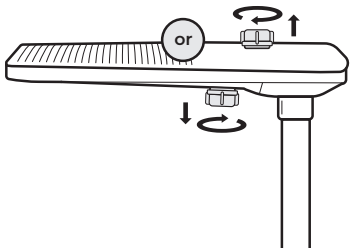
ALERTS:

- Power failure
- Power level below set threshold
- Luminaire working hours overreached
- Dimming profile difference between node and driver

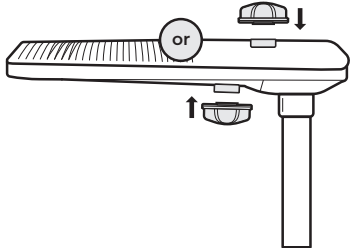
INSTALLATION INSTRUCTIONS

FIELD INSTALLATION

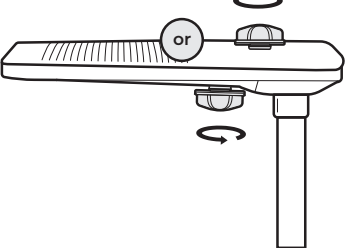
1 Remove protective cover



2



3



4 Download APP





Available on the
Google Play

Download on the
App Store

5



DevEUI:

CHECK

6



Send collected data

7



Enter e-mail and click send.

SEND

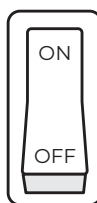
8



citylight.net

Upload device ID numbers from file

9

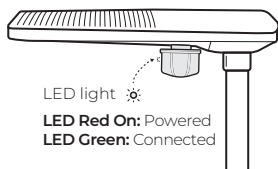


ON

OFF

Power ON

10



LED light

LED Red On: Powered

LED Green: Connected