

# **Urbana RFTZ NB-IoT Module**





#### Born to be smart

Urbana RFTZ Module is a Plug&Play control device for smart lighting applications. The device incorporates the multifunctional control unit which implement the DALI 2.0 protocol to communicate wth the smart driver. It is able to track power parameters and set operating values. The device is compliant with the Zhaga Book 18 guidelines and is a plug-and-play solution for integrating any luminaire into Urbanalo TPlatform.

#### Best in class for energy efficiency.

Adapt current flow according to physical parameters of the lamp. Customize power and light level dinamically and in real-time to the preferred power level.

### Real-time optimization through Urbana IoT Platform.

All lamps, thanks to Urbana RFTZ Module, can be programmed and reprogrammed whenever needed with a personalized lighting plan so the lamp will shine according to the requirements.



### TECHNICAL SPECIFICATIONS

#### Mechanical

Housing: Solid case Material: Plastic

Dimensions (mm): 47 (D) x 45 (H)
Mounting: Luminaire
Connectors: Zhaga Book 18

#### **Electrical**

Input Voltage: +9VDC to +28 VDC

Internal backup battery duration 10 days

#### **Environmental**

Operating Temperature:  $-40/+70 \,^{\circ}\text{C}$ Storage Temperature:  $-50/+80 \,^{\circ}\text{C}$ Operating Relative Humidity (max): 100%IP Rating: IP67 Certification: CE, RoHS

#### Average lifetime

Mean Time To Failure 3,000,000 hours

#### **Interfaces and Protocols**

Control input/output interface: DALI 2.0, SR
Navigation: GPS/GLONASS\*

Radio Interface: LTE Cat-M1 and Cat-NB1

Deployed bands: 1, 2, 3, 4, 5, 8, 12, 13, 17, 18, 19 20, 26, 28

Urbana products are continuously evolving. Urbana reserves the right to change technical and formal specifications without any public advice.

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<sup>\*</sup> On request

<sup>\*\*</sup> Under processing



### TECHNICAL SPECIFICATIONS

#### Monitoring parameters

Power consumption \*\*\*

Dimming Active power \*\*\* Daily programming with up to 16 dimming points

Reactive power \*\*\* Ambient light sensor Geolocation (GPS version) Apparent power \*\*\*

Power factor \*\*\* On/Off

Line voltage \*\*\* Controller operating hours Driver status \*\*\* LED/lamp operating hours

Driver current \*\*\* On/Off cycles Energy consumption \*\*\* DALI error \*\*\*

LED fade time \*\*\* Flash memory error \*\* Controller over temperature Eeprom memory error \*\* Driver over temperature \*\*\* Ambient light error \*\* Main voltage down Driver over/under voltage \*\*\*

GPS error \*\* Generic fault \*\*

### **Emergency functions**

RTC status is kept for 10 days after line voltage down event. Upon line voltage recovery event, the device restores the last lighting program even without network connectivity.

In case line is down for more than 10 consecutive days, network is unreachable and RTC is resetted, the controller executes the light sensor-based program.

### Compliances

EN 55024 EN 62479 (R.E.D.) EN 62368-1:2014

EN 55024/A1 EN 62368-1/A11:2017 EN 62368-1/EC EN 55032

EN 61000-3-3

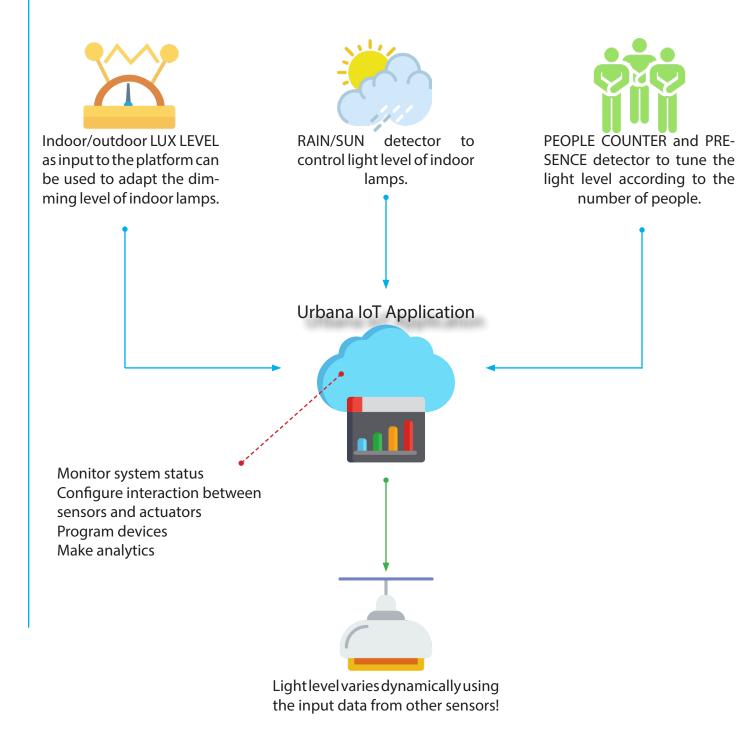
\*\*\* If available from the driver

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### **URBANA IOT PLATFORM**

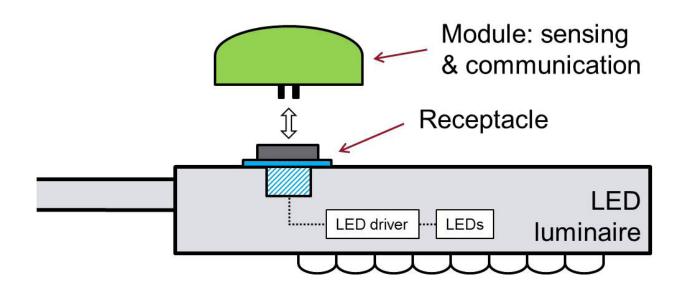
Urbana RFTZ Module is compatible with Urbana IoT Platform, a platform that integrates lighting service with a lot of Smart services like video surveillance, environmental sensors. The application allow to quickly integrate input data from several sensor to be used to properly tune the lighting system. External sensor and device mounted sensor can be used to adaptively change the light level.

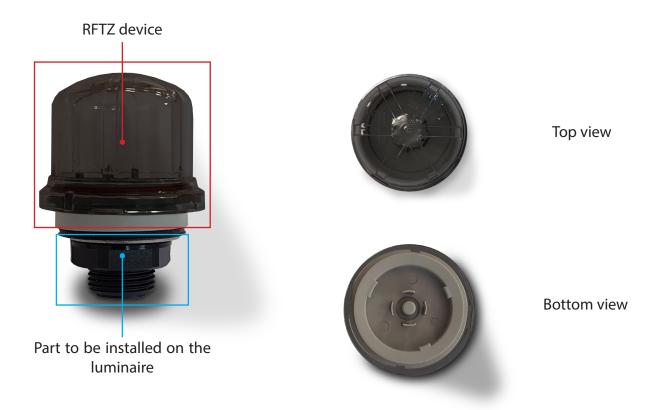


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# **CONNECTION SCHEME - ZHAGA BOOK 18**





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## **PRODUCT CODE**

Products are identified by the following notation.

PRODUCT	RADIO	GPS
RFTZ	NB: LTE Cat M1 & NB1	N: w/o GPS
		S: GPS

ex. **RFTZNBN** 

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