

LUMINEXT RF5: OLC500 Zhaga NB-IoT

- Suitable for all fixtures with Zhaga book 18 connector
- Large scale usable and expandable
- With GPS sensor for automatic commissioning
- Equipped with CAT-M1 / NB2 modem and soldered sim card

The RF5 system

The RF5 system consists of the OLC500 Zhaga NB-IoT outdoor lamp controller (OLC). These controllers make direct contact with the cellular network of a telecom provider, for which each controller is equipped with its own SIM. The OLCs of the RF5 network are attached to the outside of the luminaire. The OLCs are connected to Luminizer via a service provider's network.

The OLC500 Zhaga NB-IoT is equipped with a GPS sensor, this sensor information is used to allow a node to automatically register on the Luminizer back-end system. Luminizer then checks whether a pole is already known at this location. If so, an import suggestion is made to link the relevant OLC to the relevant pole. If not, an import suggestion is made to create a new pole with this OLC linked to it.



The OLC500 Zhaga NB-IoT

The OLC 500 Zhaga NB-IoT is a lamp controller for remote control, dimming, monitoring and management of public lighting. This OLC is suitable for all luminaires with a Zhaga connector and can control D4i drivers based on DALI 2.0. The OLC500 Zhaga NB-IoT has a digital input for additional Smart City functions.

The OLC500 Zhaga NB-IoT sends the following information to the Luminizer platform:

- *The set and the actual dimming schedule followed*
- *Measurements and asset data are read from D4i driver*
- *DALI lamp and driver status information*
- *GPS coordinates*
- *Sensors: light intensity, accelerometer, temperature*

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Model	OLC500 Zhaga NB-IoT
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ELECTRICAL DATA

Mains Supply	18-24VDC
Max Lamp Power	Not applicable
Power Consumption	0.5W @24Vdc (standby)

HOUSING

Material	Polycarbonate
Protection	IP66 / IK09
Dimensions	80 x 35 mm (diameter x height)
Weight	76g

ENVIRONMENT

Temperature	-25°C to +65°C
Relative Humidity	0-100%

FEATURES

Dimming Interface	DALI, IEC 62386, D4i, support 1 independent driver
Digital Input	Max 40VDC
Measurements	No measurements, electrical data is read from the driver
Sensors	Accelerometer (XYZ position), Lux sensor, Temperature sensor, GPS
RTC	Realtime Clock with capacitor back-up up to 4 days

COMMUNICATON

Cellular technology	LTE-CAT-M1 / CAT-NB2
Sim card	Soldered simcard
Connectivity	10 years / 500Mb data included. This subscription can be topped up when needed
Network Protocol	MQTT
Security	Private APN and VPN

OEM

Manufacturer	Umpi Srl, Italy
Part ID	61556F-NBLoT (Syrá RE-Z)

STANDARDS

Approval	RED Directive 2014/53/EU, EMC Directive 2014/30/EU, ROHS Directive 2015/863/EU LVD Directive 2014/35/EU
Radio	FCC ANSI C95.1, IC RSS-247, IC RSS-102, FCC Part 15.247
EMC	EN 55015, EN 61547, EN 61000-3-2, EN 55035, EN 55032
FCC/ICES	47CFR15.107, 47CFR15.109 and ICES-003 Issue 6
Safety	EN 62368-1

ORDER INFORMATION

Productnumber	10.75.500 – OLC500 Zhaga Nb-IoT
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The EU-Declaration of Conformity is available on <https://www.luminext.eu/en/rf5-system>

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