



Description

CityZenZ Litec is the essential hardware component within the CityZenZ platform and forms the foundation of a private wireless communication network. This network operates independently of telecom providers, eliminating recurring costs while maintaining full control over data, security and privacy.

The system is developed for applications within public infrastructure, such as street lighting, smart city solutions and energy monitoring. Via **Zhaga**, Litec communicates directly with luminaires in lighting poles, while sensors and other data sources can be connected through the same network. This creates an integrated communication network at street level.

The robust hardware is designed for outdoor use and suitable for both urban and industrial environments. In combination with CityZenZ Connect, CityZenZ Intelligence and external data platforms via APIs, a scalable digital infrastructure is created. For operators, this results in fast deployment, lower operational costs and real-time insight into lighting, sensors and energy data.

Functionalities

Topic	Description
Dimmable	Supports dimming functionality for luminaires
Dimming schedules	Dimming schedules can be added and managed via the online dashboard
Dimming moments	Local absolute time
Time synchronisation	Every four hours
Output	Zhaga
Robust	The configured switching schedule remains active without a LoRa connection
Monitoring & visualisation	Dashboard for insight into puck locations and visualisation of fault notifications

Communication

Topic	Description
Wireless connection	LoRaWAN Class A v1.0.2
LoRA band	EU868
Positioning	GNSS (GPS & Galileo)
LTE & GNSS antenna	Internal
Bus connection	DALI

Data-interface

Topic	Description
Protocol	DALI1, D4i
Connection	1: 24 VDC, 2: DALI -, 3: DALI +, 4: NC



Power

Topic	Description
Input voltage	24 VDC (20 - 30 VDC)
Power consumption	< 1 W

Environment & mechanical

Topic	Description
Storage temperature	-20°C to 65°C
Operating temperature	-20°C to 65°C
Operating altitude	< 2000 m above sea level
IP protection rating	IP65
Dimensions	Ø80,6 × 40 mm
Weight	80 g

Regulations & compliance

Topic	Description
Safety	EN 62368-1:2023
Radio (RED directive)	<ul style="list-style-type: none">EN 301 908-13 V13.2.1EN 303 413 V1.1.1EN 301 489-1 V2.2.3EN 301 489-52 V1.2.1
EMC	<ul style="list-style-type: none">EN 61000-6-2:2019EN 61000-6-4:2019
RoHS	2011/65/EU
WEEE	2012/19/EU



Ordering information

Product	Product number
CityZenZ Litec	LOGUARDGPS

All specifications are subject to changes