

LUMENIA
SOLUTIONS



LUMENIA SOLUTIONS

Bring your ideas to light.

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Light is essential for our well-being. Nowadays life dictates everyday changes and lighting has to keep up. Embrace progress and join us in the Internet of Things revolution.

Lumenia Solutions programme was created to present you with a vast array of possibilities of making different environments more comfortable, safer and interactive. We integrate solutions in the fields of smart cities and smart buildings. Long-term cooperation with selected partners has brought us a large portfolio of IoT gadgets.

We are committed to create better future with IoT technology: let's turn imagination into reality together and create a smarter environment for everyone.



LUMENIA IOT PLATFORM CORE

We offer multiple IoT platforms to fulfil all your needs and wishes. They consist of different configurations depending on your needs and local requirements.



LIGHTING FIXTURES

We have a huge portfolio of street, industrial and interior lighting products, which can always be adjusted to local market requirements and needs.



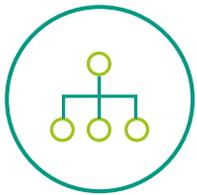
POWER CONSUMPTION METERING AND SUB-METERING

A plug-in platform that allows you to use and integrate different metering and sub-metering systems for monitoring power consumption of lighting or other devices.



COMMUNICATION PROTOCOLS AND TECHNOLOGIES

For best user experience our lighting systems support different communication protocols and technologies, such as DALI, Radio Frequency or Power Line control.

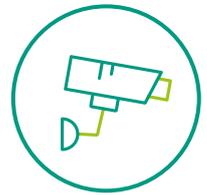


LIGHTING MANAGEMENT SYSTEM

Our CMS LUM can be easily integrated into the IoT platform.

VIDEO SURVEILLANCE, ANALYSIS AND ANALYTICS

In field of video surveillance and video analytics we work with a partner company AXIS, the world leader in camera and video analytics technology.



SOFTWARE ANALYTICS

Additional software analytic can provide us with useful information such as:

- license plate recognition;
- face capture;
- traffic accidents detection;
- people tracking.



MULTIPLE SENSOR SYSTEMS

To acquire sufficient data for analytics, we provide multiple environment sensors for detecting motion and light, vision sensors and sensors collecting different environmental data.



ELECTRIC CAR CHARGER

Car charging socket connected to the lighting management system.



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ADDITIONAL PLC FEATURES

- Radar sensor for detecting vehicles and pedestrians
- EV Charging for electric vehicles
- Twilight sensor for determining switch on and off time
- Cabinet door sensor for detecting non-authorized entering the cabinet



PLC CONTROL

- Power line control enables you to control SLUM luminaire using existing mains voltage wires
- Patent on signal modulation
- Controlling streetlights on mains net work up to 5km
- Energy monitoring and reporting
- Leakage detection



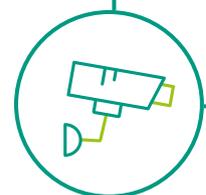
VIDEO APPLICATIONS:

- Movement detector in selected area
- License plate recognition
- Deployable surveillance
- Facial recognition
- Smoke detector



CAMERA

- Integrated camera provides various application for monitoring and auto detection
- Camera specially designed for streetlight application with horizontal 180° and 90° vertical weaving angle
- 8MP resolution at full frame rate
- Seamlessly stitched images from multisensory panoramic cameras



ADDITIONAL RF FEATURES

- Radar sensor for detecting vehicles and pedestrians
- Inclination sensor detecting XYZ axes movements of the luminaire in cases when someone crashes into the light pole
- Cabinet full protection with door switch sensor and alarm



WIRELESS CONTROL

- Controlling luminaires over the air
- Dynamic mesh network means you can use point to point and mesh network topology
- Firmware upgrade over the air
- Embedded GPS sensor
- Energy monitoring and reporting
- Leakage detection



NEMA & ZHAGA

NEMA AND ZHAGA SOCKET

- Luminaire SLUM can be equipped with standard NEMA socket according to ANSI 136.41 or Zhaga socket
- The sockets are protected with IP cover in case of wanting to upgrade the street lights in the future



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**LUMENIA
SLUM**

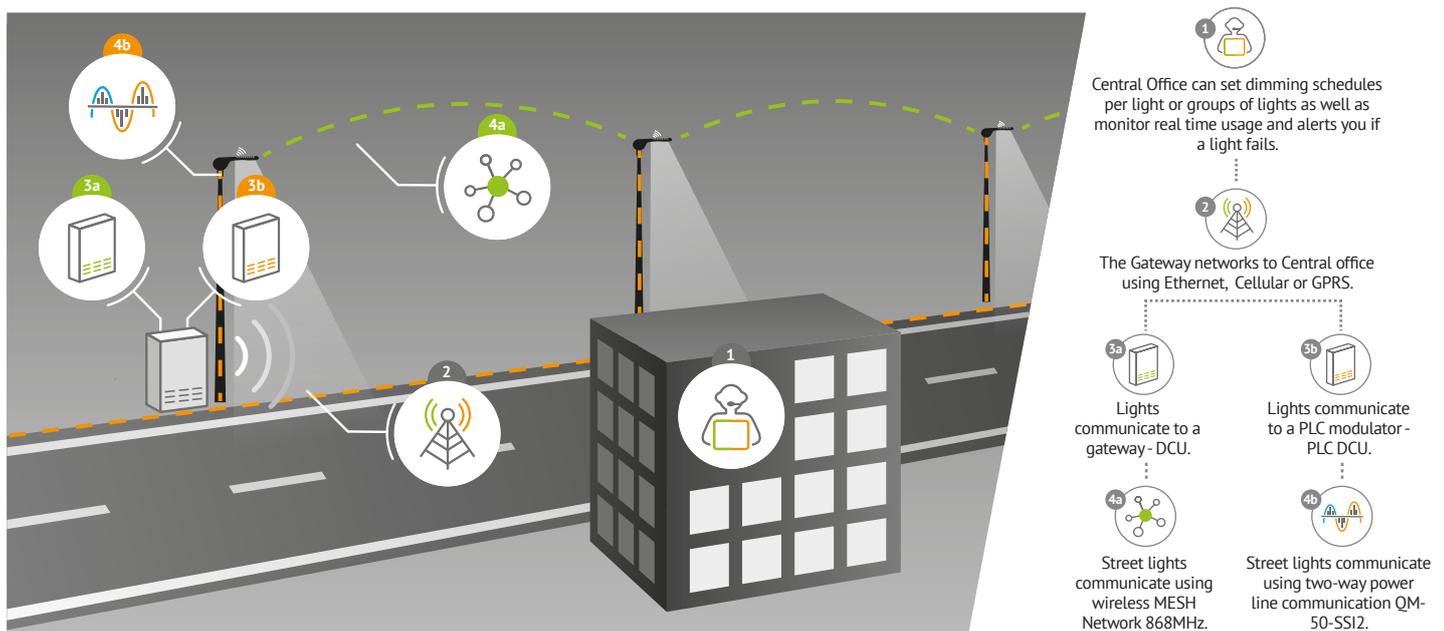
LUMENIA CMS LUM CENTRAL MANAGEMENT SYSTEM

The central management system plays a crucial role in lighting management today. It can be used as an embedded system in an IoT platform, or as a stand-alone system. LUMENIA CMS LUM enables remote control, monitoring and management of individual luminaires in different settings, from parking lots to street lights on a major highways.

LUMENIA CMS LUM CAN REDUCE THE COSTS OF ENERGY AND MAINTENANCE BY UP TO 60 %.

The system consists of hardware integrated into the luminaire (RF or PLC node), and a cloud based graphical user interface, which is used for easy monitoring and configuration of luminaires.

Lamp failures can be easily monitored remotely from the control centre, which facilitates maintenance scheduling. The system also offers wireless control for managing street lighting through the mesh or point to point network or Power Line Communication (PLC), which supports the management of street lighting through the existing power lines.





LUMENIA lights will become indispensable element of the new IoT era.



Energy
Savings



ROI



Lower CO₂
Emissions



Connectivity



IoT



Designed and
Manufactured in EU

