

# OUTDOOR LIGHTING CONTROL SYSTEM - UNILIGHT

HARDWARE-SOFTWARE SYSTEM THAT IS USED FOR MONITORING THE OUTDOOR LIGHTING NETWORK CONDITION, POWER METERING AND EQUIPMENT DIAGNOSTICS.



Reduced operating costs



Reduction of electricity consumption



Increase equipment life



Application in energy service contracts

## SYSTEM CAPABILITIES:

### INTELLIGENT MANAGEMENT

- ▶ Outdoor Lighting Management
- ▶ Individual and group dimming
- ▶ Adapting lighting to weather conditions and road traffic, compliance with the schedule

### CONTROL AND MONITORING

- ▶ Health control of outdoor lighting cabinets and lamps
- ▶ Display objects on the map
- ▶ Creating mimics
- ▶ Alarm about malfunctions and unauthorized connections to the lighting network

### COMMERCIAL METERING OF ELECTRIC POWER

- ▶ Indication of readings of electricity meters
- ▶ Data storage for an unlimited period of time
- ▶ Formation of energy reports
- ▶ Data transfer from meters to operator's personal data
- ▶ Unloading into information systems: 1C, GIS housing and communal services, etc

## SYSTEM ADVANTAGES

### APPLICATION IN ENERGY SERVICE CONTRACTS

- ▶ 30% reduction in energy consumption
- ▶ Tools for pre-project inspection, inventory and control of work of service organizations
- ▶ More than 20 cities under the UNILIGHT platform under energy service contracts

### ONE CITY PLATFORM

- ▶ The lighting control system is the basis for a wide range of Smart City services included in the UNILIGHT platform: Smart Pillar, Smart Crosswalk, Smart waste bin, etc.

### OPENNESS

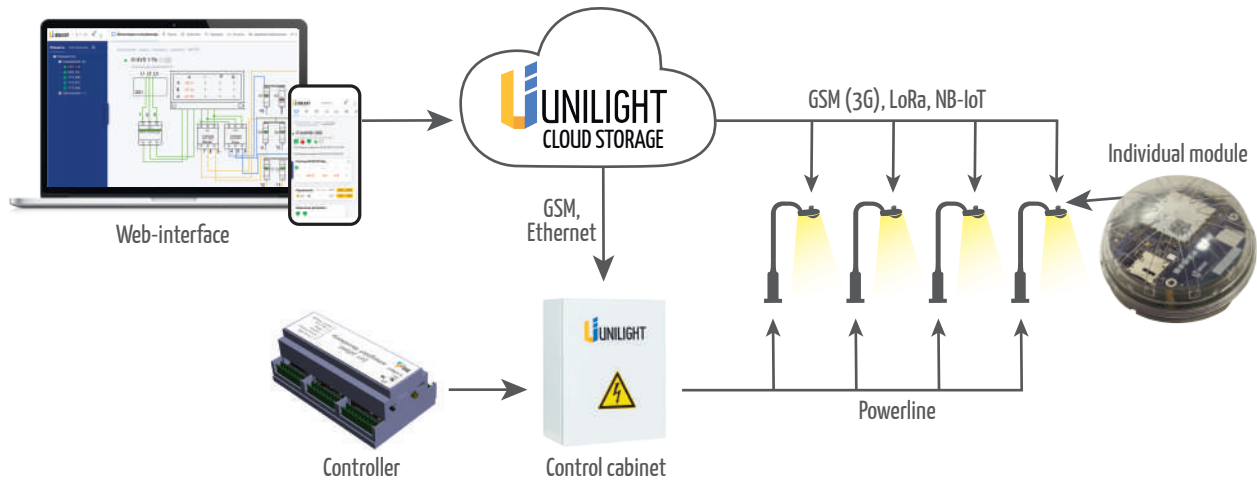
- ▶ Connect to existing infrastructure
- ▶ Integration with other management systems and information platforms



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# STREET LIGHTING SYSTEM ARCHITECTURE



## INDIVIDUAL LIGHTING CONTROL MODULE



- ▶ Wireless control of each lamp via channels: GSM (3G), NB-IoT, LoRa
- ▶ Options: NEMA-connector, SR-connector, plastic body installation inside the lamp
- ▶ Dimming fixtures from 0 to 100%
- ▶ Support for up to 16 independently controlled luminaires
- ▶ Temperature range from -40 to +70
- ▶ Built-in sensors: humidity, temperature, light

## SOFTWARE



- ▶ Remote control
- ▶ User friendly interface
- ▶ Display elements on a city map
- ▶ Event archiving
- ▶ Formation of reporting documents
- ▶ Cloud access or customer installation
- ▶ Unauthorized Access Protection

## OUTDOOR LIGHTING CONTROL CABINET



- ▶ Turn on / off lighting lines
- ▶ Monitoring network line parameters
- ▶ Accounting for electricity consumption
- ▶ Emergency protection
- ▶ Various degrees of execution

## UNILIGHT CONTROLLER



- ▶ 6 outlets to control lighting
- ▶ 27 inlets to control voltage, power lines condition, door sensors and smoke
- ▶ Two RS-485 interfaces to interact with external devices
- ▶ Built-in GSM-modem. 3G support. Two SIM cards
- ▶ Remote software updates



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