luminous profile based on local time (2)

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%

always on scheme or powered on by an external command

powered-on scheme
lamp ON
saved energy

lamp ON
local ephemeris
sunset (1)

lamp OFF
local ephemeris
dawn(3)

dim level 10%

local ephemeris
alba -15 minutes
dim level 30%

ore 21.00
dim level 100%

ore 22.45
dim level 70%

ore 0.15
dim level 40%

h 3.45
dim level 70%

Smart streetlights controllers and sensors exchange data with the backend software by means of **CB200.** The distributed intelligence strategy makes any level of the system virtually independent.

Luminibus®
POINT-TO-POINT REMOTE MANAGEMENT

Luminibus®
smart lighting for smart cities

SLiCo, streetlight controllers

powerline, RF and NBIoT devices for remote point-to-point control of DALI, 0-10V port and step-dimming luminaires

IP20, IP67 environmental protection

NEMA® socket and Lumawise® version also available

It enables LED, high power discharge fixtures and step-dimming ballasts to perform remote point-to-point management.

Luminibus is the most advanced smart city and smart lighting platform.

Smart lighting is energy efficiency, accurate diagnostics, configuration of lighting profiles and preventive maintenance, thus achieving remarkable reductions in operating costs of lighting systems.

Get started with any Smart City services: Luminibus is a multi-level and future-proof enabler for any vertical application you may need.

Luminibus achieves these results in a simple way thanks to its architecture that is extremely intuitive and flexible, suitable for all needs: from HID to LED, from remote management to more sophisticated smart city applications.

APK SMART TECHNOLOGIES

www.apkappa.it

datasheets of any Luminibus component are available for download on www.apkappa.it

meters AND m⍥re OPEN TECHNOLOGIES
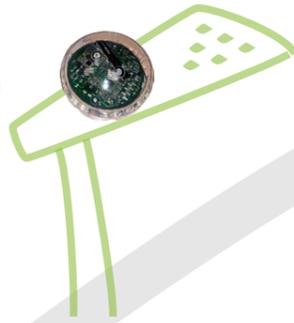ASSOCIATED MEMBER

SCS
smart city software

SCS, Smart City Software is the web-based software component of Luminibus by which the scheme manager interacts with any single streetlamp and sensor in a safe, crypted and authorized mode over HTTPS protocol. SCS is available with cloud computing.

SLiCo NGL
NBIoT GPS LUMAWISE Endurance controller

self-configuring, plug&play streetlight controller: SliCo NBIoT is the most advanced and easy-to-use point2point control management solution

SLiCo NBIoT, LoRaWAN, PLN
NBIoT RF PLC NEMA socket controller

WIRELESS SENSORS NETWORK

NOx PM-10 SO2 CO2

SOS

P

dB

BROADBAND SERVICES

turn streetlighting into a
smart city enabler

Luminibus allows a total control of the streetlighting systems, both at lamp and switchboard levels, and also transforms it into the perfect infrastructure for **smart city services** deployment.

Smart environmental sensors, waste management, salt spreading optimization, traffic monitoring, water overflow prevention, parking paypoints, charging stations for electric cars and bikes, bike rental stations, wi-fi spots, metering, videosurveillance, digital signage, defibrillator (DAE) docking stations, SOS alarms and many other similar devices can be linked to the Luminibus smart grid for delivering services where people needs them.

SLiCo PLNLx
powerline streetlight controller

SLiCo PLNLx is the smart controller for LED lamps up to 150W. It enables full control, diagnostics and electrical measurements on any single lamppost.

multi-band cellular communicatoin 2G, 3G, 4G

Wi-Fi

RF multi-standard

3-IN-1
multi-standard data concentrator for Smart City switchboard remote control data concentrator for Smart Lighting

concentrator
CB200

It is the ultimate „dual mode" powerful data concentrator for streetlight switchboard. In one single solution you will be able to have full control of the switchboard itself in terms of alarms, diagnostics, energy thefts and others. CB200 also works as data concentrator for your point to point smart lighting system, over standard PLC communication protocol.

Linux-based

CB200 is typically installed in the distribution board and manages data communication among the control room and any single streetlamp equipped with Meters&More devices.

Optical Fiber

PLC 3-phases standard communication

LED & discharge lamps
The SLiCo family of controllers allows integration of any streetlamp in a remote point-to-point management system.
The highest flexibility: standalone configuration is even possible.

powerline streetlight controller
SLiCo PLN5B up to 400W

The energy savings achieved by the usage of Luminibus exceed **40%** without changing lamp technology