



PRODUCT CATALOGUE

Total solution provider of city sensing network
based on light pole as core carriers

Shenzhen JiJia Lighting Co., Ltd.

**Making The Worldwide
Streetlight Connect
Into One Network.**





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About Us

Shenzhen Jijia Lighting Co., Ltd.

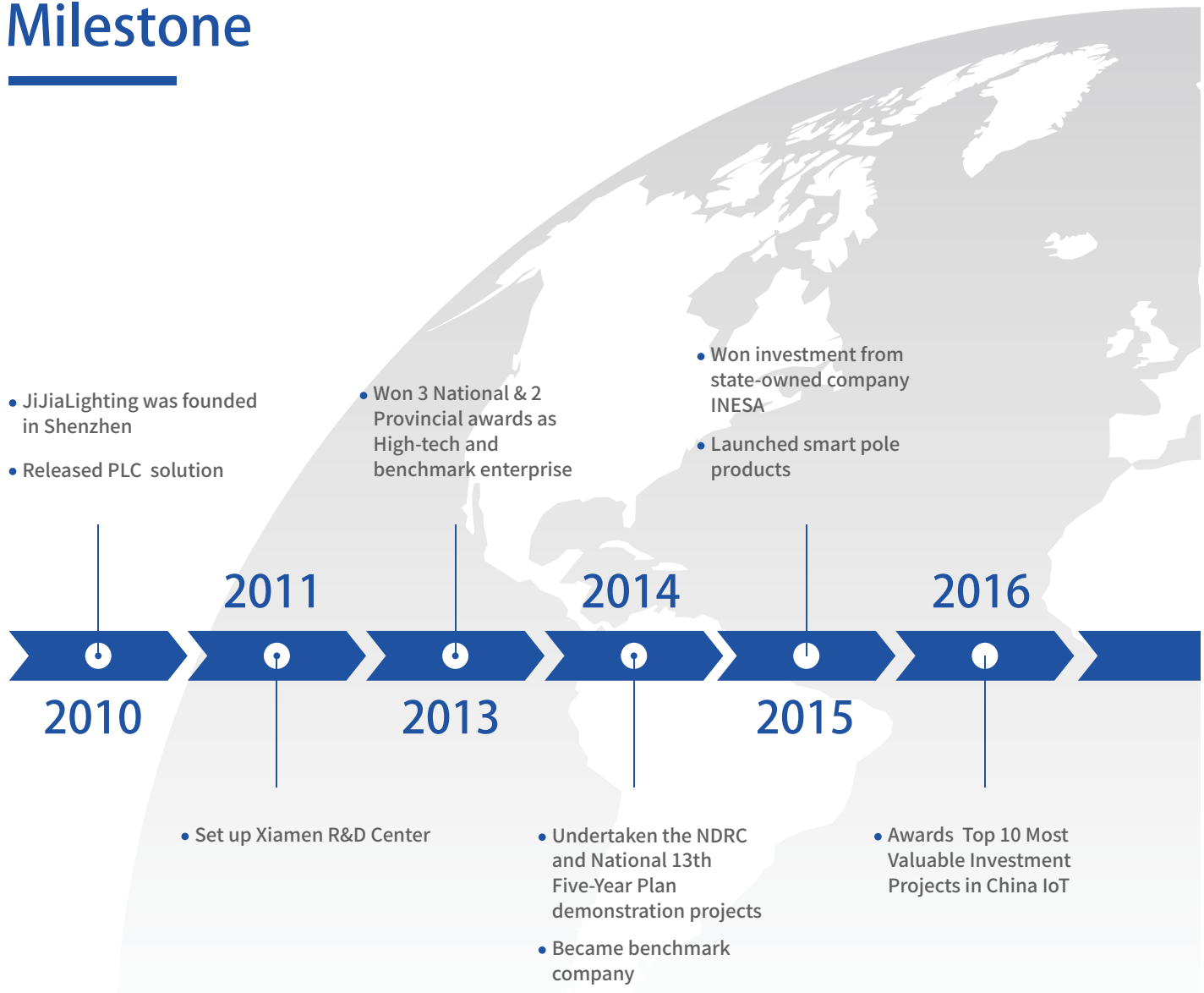


With more than 3 million pieces smart street light installed in over 500 cities and 30 countries, JiJia Lighting is the leading total solution provider for smart street light and smart pole. For making our planet greener, our cities more perceptive and intelligent, Jijia Lighting is focusing on offering total solution for city sensing network based on light pole as core carrier since 2010.

We provide comprehensive solutions of Dual-mode(PLC+RF 433), Wi-SUN, Zigbee, LTE Cat. 1, PLC, NB-IoT, LoRa and RS485 for street, tunnel, solar, industrial and landscape lighting, and we offer one-stop solution for various applications of smart pole including CCTV camera, LED display, speaker, charging station, sensor and so on. We are not only have professional platform V3 for smart lighting, but also with powerful Intelligent Lighting IoT Platform HOTSU for smart pole, clients can enjoy one platform for control, management, operation and maintenance of lighting and all smart devices on pole.

JiJia Lighting is your smart choice for smart street light and smart pole.

Milestone



- Strategically Launched ILoBook powerful platform
- Our products have been recommended by Xiamen government officially

- Established "Xiong'an New Area IOT Research Institute"
- Won the National Service Industry Development Guidance Fund

- Won the government "Gazelle" innovation awards

2018

2021

2017

2019

2022

- Developed SaaS big data platform
- Launched IoT gateway and smart pole, also dual mode TC

- Started new company development strategy

Company Overview



No.1

Market share

10⁺
years

Business experience

30⁺

Countries covered

500⁺

Cities covered

200⁺

Employees

4000m²

Production area

80⁺

Engineers

150⁺

Patents

3M⁺
PCS

Installed Controller

6

Platform Languages



Turn-key Solution

- Comprehensive support for entire project
- One stop purchasing from hardware to platform

Rich Experience

- 10+ years experience
- Project covers 30 countries and 500 cities
- Experience for all kinds of applications

Strong Innovation

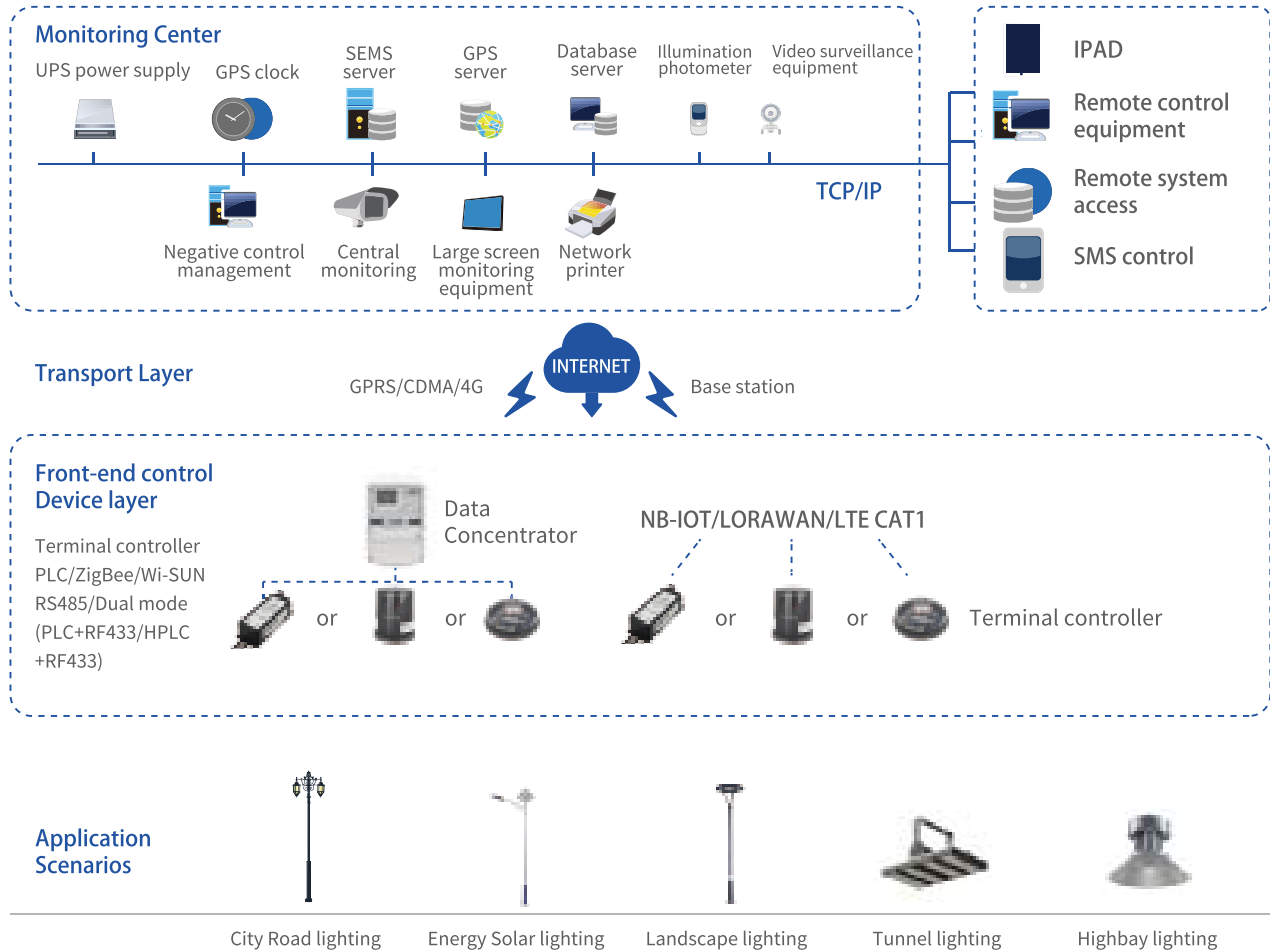
- 80+ experienced engineers
- 150+ patents
- Faster to market

In-house Production

- 4000m² production area
- Flexible and on time delivery
- More stable quality

Total solution provider of city sensing network based on light pole as core carriers.

System Structure Overview



Communication technologies

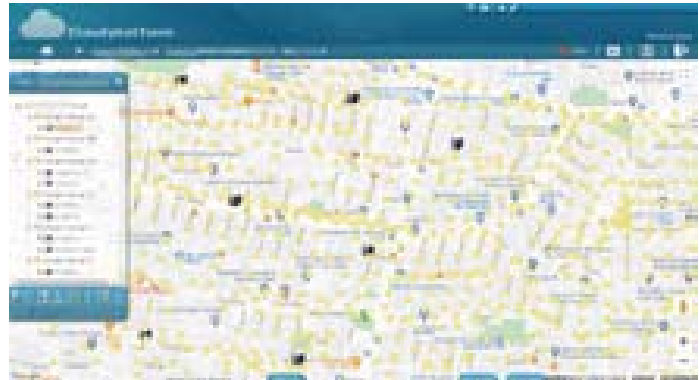


Platform

Intelligent Lighting Platform

SEMS-SLCS-V3

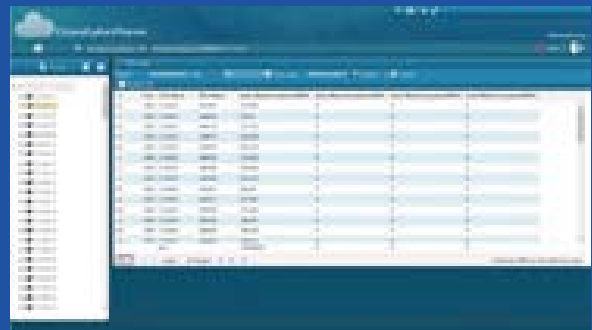
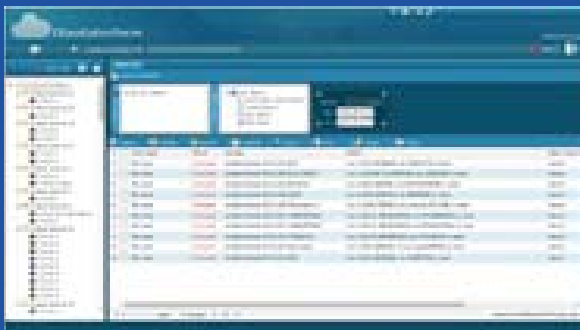
The SEMS - SLCS-V3 platform is a professional B/S software special designed for the smart cities lighting field applications. Easy to control, easy to use, easy to install. This platform is a good way to make your project to success in cloud or server. It is a web based platform, users can be able to access it by a laptop or tablet device. It can be installed in Windows server or Linux server.




Functions

- Data**: Show the power consumption
- System alarm**: Show the alarm record and types
- Task**: Scheduling your lights
- Lighting**: Show the percentage of normal & fault light
- Monitoring**: on/off, dim, query, overview monitoring
- System**: Creat/delete projects, roles, users & authorise
- Log**: Record the actions done to platform
- Device**: Add/remove devices

Platform interface




Advantages




Open API

Ready for future
Open for bigger
platform




Safety solution

No hosting, no back
door, You own the
platform & all data



User friendly

Pure background color
Easy-understanding
icon, Optimized
interface & process



Green platform

Small package size
One-click installation
Install without plug-in

Benefits

For Citizens

- Safer on roads with adequate light.
- Live better with less light pollution because of suitable lighting period and brightness.

For Cities

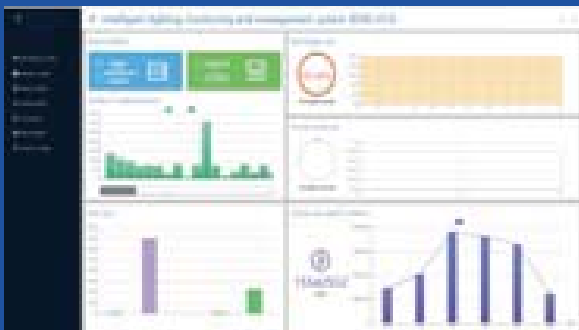
- Shows modern and high-tech image to the world.
- Create a safe atmosphere and environment for the city.

For Governments

- Reduce energy cost up to 60%.
- Save cost on operation & maintenance up to 50%.
- Minimize crime through adequate public light.

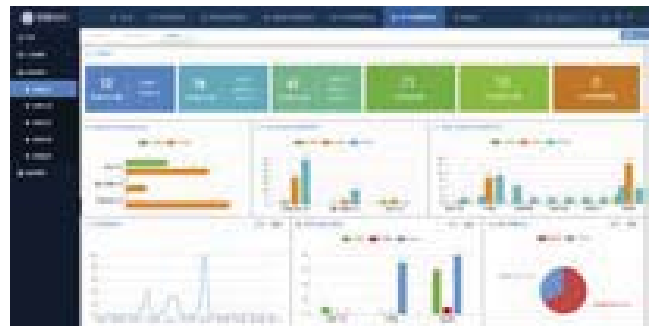
For Lighting Operators

- Precise & efficient light control on platform as per real demand.
- On-time data and status checking.
- Automated fault alarm notification.
- Easy asset management by fully record & precise GPS positioning.

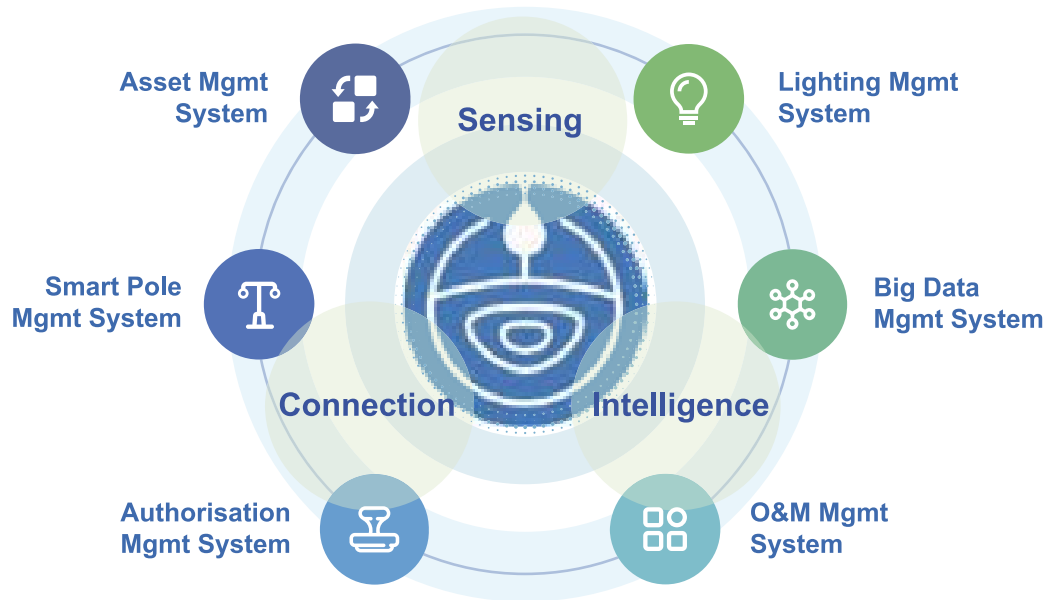


Intelligent Lighting IoT Platform HOTU

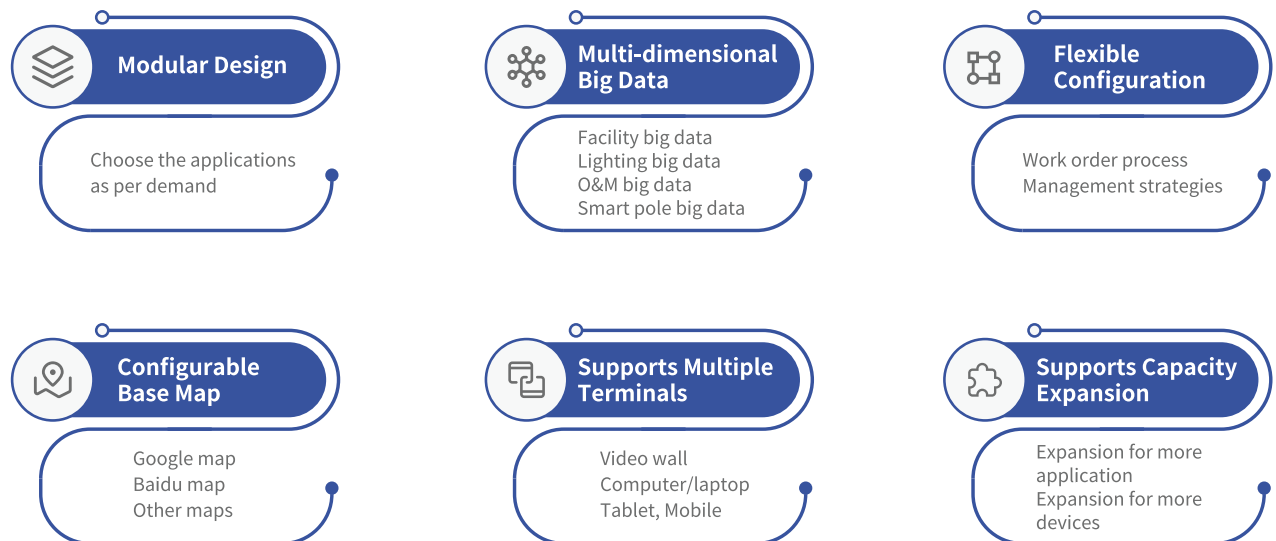
HOTU is a powerful Intelligent Lighting IoT Platform for smart pole project. Clients can enjoy one platform for whole process of control, management, operation and maintenance of lighting and all smart devices on pole.



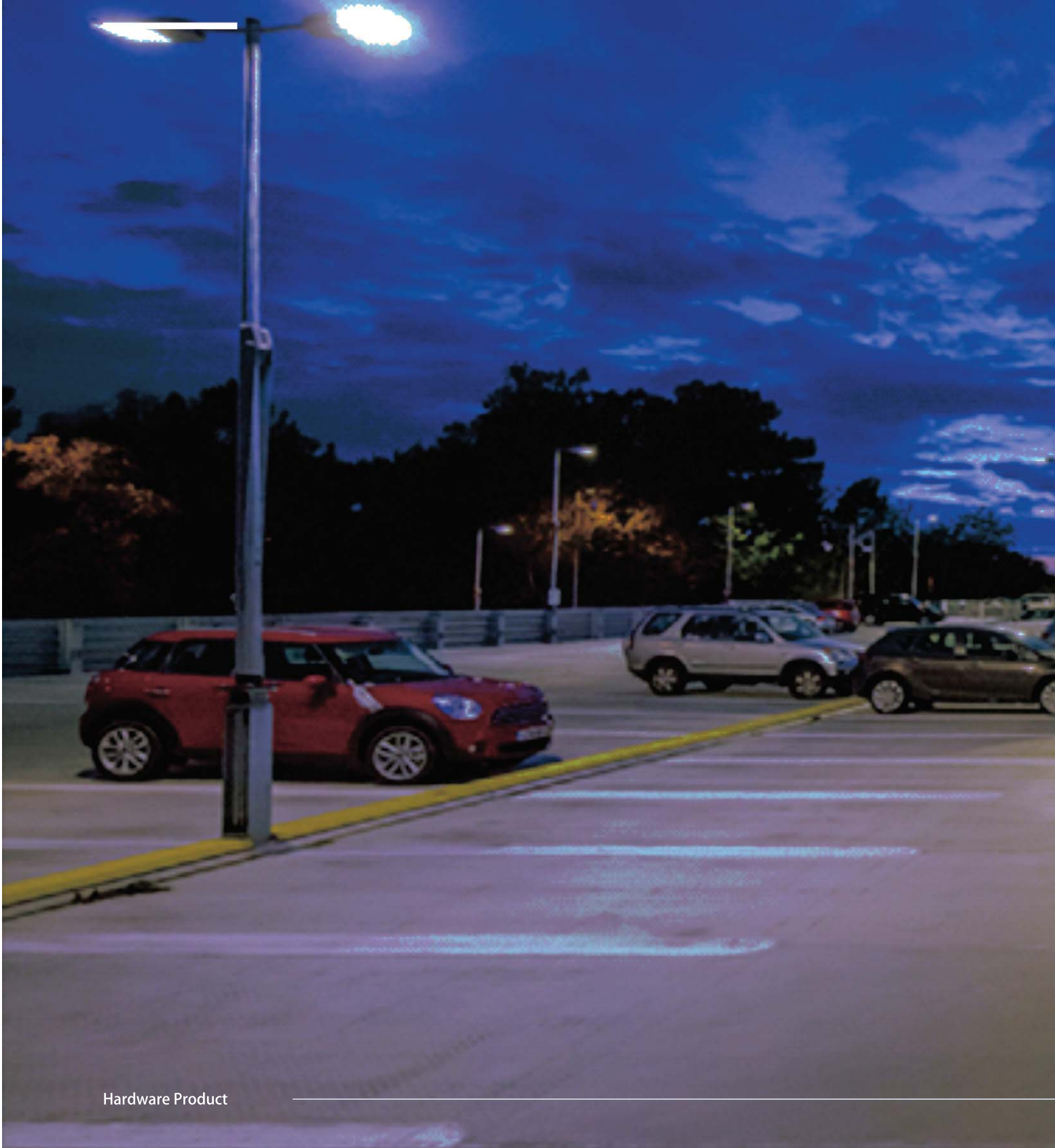
Platform Structure



Advantages



Hardware Product



Smart Street Light

Smart Street Light

SSL-BS70

Product description

Widely used in urban roads, highways, sidewalks, squares, schools, parks, industrial areas and other venues

- Light source: LED SMD
- Wattage: 70W
- CCT: 3000K / 5000K
- Efficiency : ~120lm / W
- Beam angle: 70°*140°
- Size: 650*350*135 mm
- Input Voltage: 90-305V
- IP rating: IP 65
- Material: Die-cast aluminum / Modular type
- CE Approved

Optional function

- Add PLC/RF433/4G Module
- Light Sensor



Smart Street Light

SSL-BS120 / SSL-BS150

Product description

Widely used in urban roads, highways, sidewalks, squares, schools, parks, industrial areas and other venues

- Light source: LED SMD
- Wattage: 120W or 150W
- CCT: 3000K / 5000K
- Efficiency : ~120lm / W
- Beam angle: 70°*140°
- Size: 650*350*135 mm
- Input Voltage: 90-305V
- IP rating: IP 65
- Material: Die-cast aluminum / Modular type
- CE Approved

Optional function

- Add PLC/RF433/4G Module
- Light Sensor



Smart Street Light

SSL-BB80/SSL-BB100

Product description

Widely used in urban roads, highways, sidewalks, squares, schools, parks, industrial areas and other venues

- Light source: LED SMD
- Wattage: 80W/100W
- CCT: 3000K / 5000K
- Efficiency: ~120lm / W
- Beam angle: 70*140°
- Size: 642*269*81 mm
- Input Voltage: 90-305V
- IP rating: IP 65
- Material: Die-cast aluminum / Modular type
- CE Approved



Optional function

- Add PLC/RF433/4G Module
- Light Sensor

Smart Street Light

SSL-BB120 / SSL-BB150

Product description

Widely used in urban roads, highways, sidewalks, squares, schools, parks, industrial areas and other venues

- Light source: LED SMD
- Wattage: 120W or 150W
- CCT: 3000K / 5000K
- Efficiency: ~120lm / W
- Beam angle: 70*140°
- Size: 677*294*135 mm
- Input Voltage: 90-305V
- IP rating: IP 65
- Material: Die-cast aluminum / Modular type
- CE Approved



Optional function

- Add PLC/RF433/4G Module
- Light Sensor

Solar Street Light

Solar Street Light

SASL-BS70

Product description

Go Green and carbon neutrality accelerates energy transformation, new energy based on Solar will become the main power, one-time investment, no maintenance costs, long-term benefits, making solar street lights an ideal road lighting fixtures

- Light source: LED SMD
- Battery Type: LiFePO4 Battery
- Control: Timer control + Light sensor control
- Wattage: 50-70W
- CCT: 3000K / 5000K
- Efficiency: ~120lm / W
- Beam angle: 70*140°
- No AC Power Required
- IP rating: IP 65
- Material: Die-cast aluminum / Modular type
- CE Approved



Optional function

- Different Battery Capacity Option
- Motion Sensor



Solar panel
High-efficiency monocrystalline panel
High-efficiency monocrystalline panel



Battery Power Storage
High-Performance Lithium (LiFePO4) or Gel VRLA for Extreme Lifecycle Available
Cycle life over 2,000 times, Up to 5 Days of Autonomy



Solar Charge and Lighting Controller
Smart MPPT charging system maintains battery and system life
Optional Networking and Connectivity, Programmable lighting output for varied lighting needs



LED and Optics
100,000 hour L70 Rating High Output LEDs
Wide range of color temperature options available
Up to 210lm/w

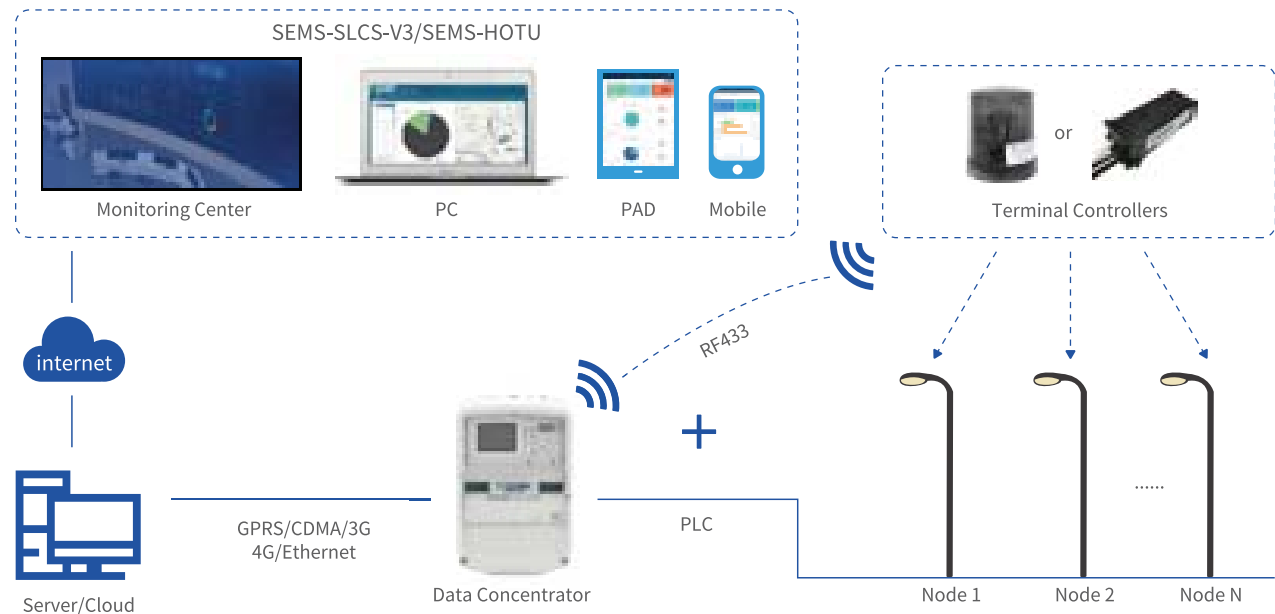


Solution



Dual-Mode (PLC+RF433) Solution

Dual mode (PLC+RF433) System Structure



Terminal Controller TC

SEMS-TC09D PID: DBP2



Product description

Work with web-based software allows remote configuration, monitoring, control, reporting, alarm and update

- PLC+RF433 Dual mode communication
- AC input 86-305V, 50/60 Hz, switch capacity max. 16 A
- Dimming: 0-10V or PWM or DALI
- Operating conditions: -40°C to +85°C, 20% to 90% Rh non-condensing; IP65
- Product size(L*W*H): 153.5*69.2*41.4mm



Optional function

- Real time clock
- GPS module
- Tilt-sensor module
- Sensor input port
- Leakage of electricity

Terminal Controller TC

SEMS-TC09D PID: DBN0



Product description

Work with web-based software allows remote configuration, monitoring, control, reporting, alarm and update

- NEMA 7 pin socket connected (ANSI C136.41)
- PLC+RF433 Dual mode communication
- AC input 86-305V, 50/60 Hz, switch capacity max. 16 A
- Dimming: 0-10V or PWM or DALI
- Operating conditions: -40°C to +85°C,
20% to 90% Rh non-condensing; IP65
- Product size(Dia*H): Φ84*98mm



Optional function

- Real time clock
- GPS module
- Tilt-sensor module
- Photocell Sensor module

Data Concentrator DC

SEMS-DC09C PID: E2M0/1DB-A06



Product description

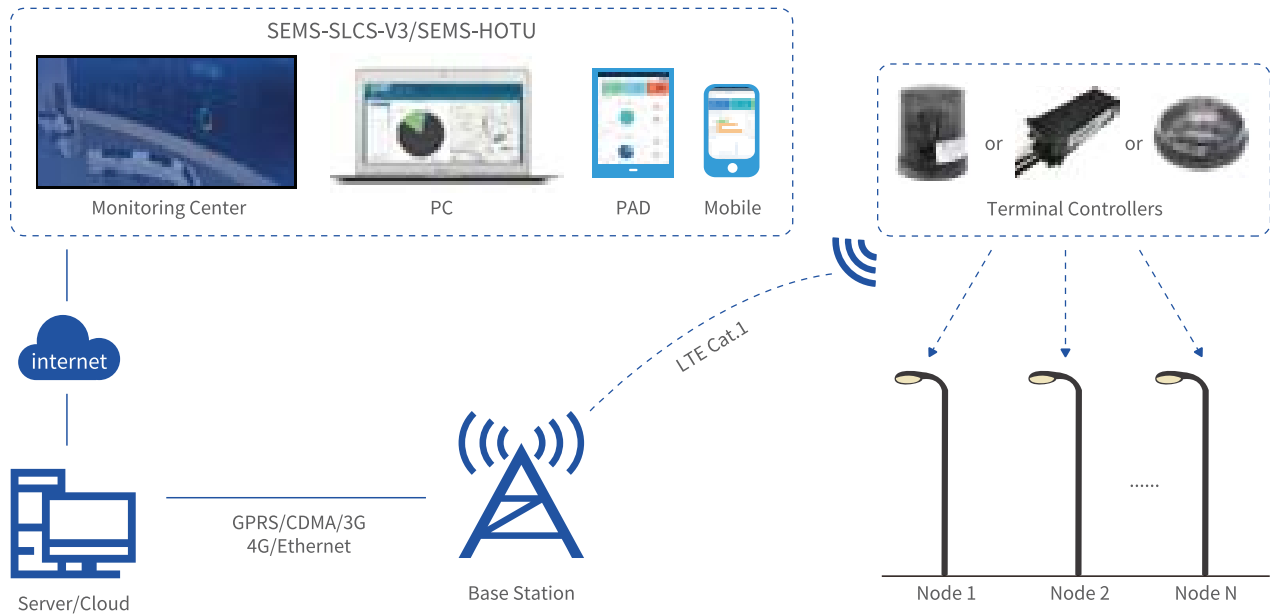
Work with web-based software allows remote configuration, monitoring, control, reporting, alarm, data and update, self-running based on astronomical calendar.

- PLC+RF433 Dual mode communication
- LCD display
- AC input 86-305V, 50/60 Hz, switch capacity max. 16 A
- Port: 2G/3G/4G, Ethernet, RS232, RS485
- IO Ports: 4 DO, 6 DI, 1 AI Input
- Operating conditions: -40°C to +85°C,
20% to 90% Rh non-condensing; IP65
- Product size(L*W*H): 290×180×95mm



LTE Cat.1 Solution

LTE Cat.1 System Structure



Terminal Controller TC

SEMS-TC09E PID: 4GN0



Product description

Work with web-based software allows remote configuration, monitoring, control, reporting, alarm and update

- NEMA 5 pin socket connected (ANSI C136.41)
- LTE Cat 1 communication mode.
- AC input 86-305V, 50/60 Hz, switch capacity max. 16 A
- Dimming: 0-10V or PWM or DALI
- Operating conditions: -40°C to +85°C, 20% to 90% Rh non-condensing; IP65
- Product size(Dia*H): Φ84*98mm

Optional function

- Real time clock
- GPS module
- Tilt-sensor module
- Photocell Sensor module



Terminal Controller TC

SEMS-TC09E PID: 4GZ0/S



Product description

Work with web-based software allows remote configuration, monitoring, control, reporting, alarm and update

- Zhaga standard socket (book ☒)
- LTE Cat. 1 communication mode.
- DC input: 12-28V
- Dimming: DALI
- Operating conditions: -40°C to +75°C,
20% to 90% Rh non-condensing; IP65
- Product size(L*W*H): Φ80*65mm



Optional function

- Real time clock
- GPS module
- Tilt-sensor module

Terminal Controller TC

SEMS-TC09E PID: 4GP2



Product description

Work with web-based software allows remote configuration, monitoring, control, reporting, alarm and update

- LTE Cat ☒ communication mode.
- AC input 86-305V, 50/60 Hz, switch capacity max. 16 A
- Dimming: 0-10V
- Operating conditions: -40°C to +85°C,
20% to 90% Rh non-condensing; IP65
- Product size(L*W*H): 153.5*69.2*41.4mm

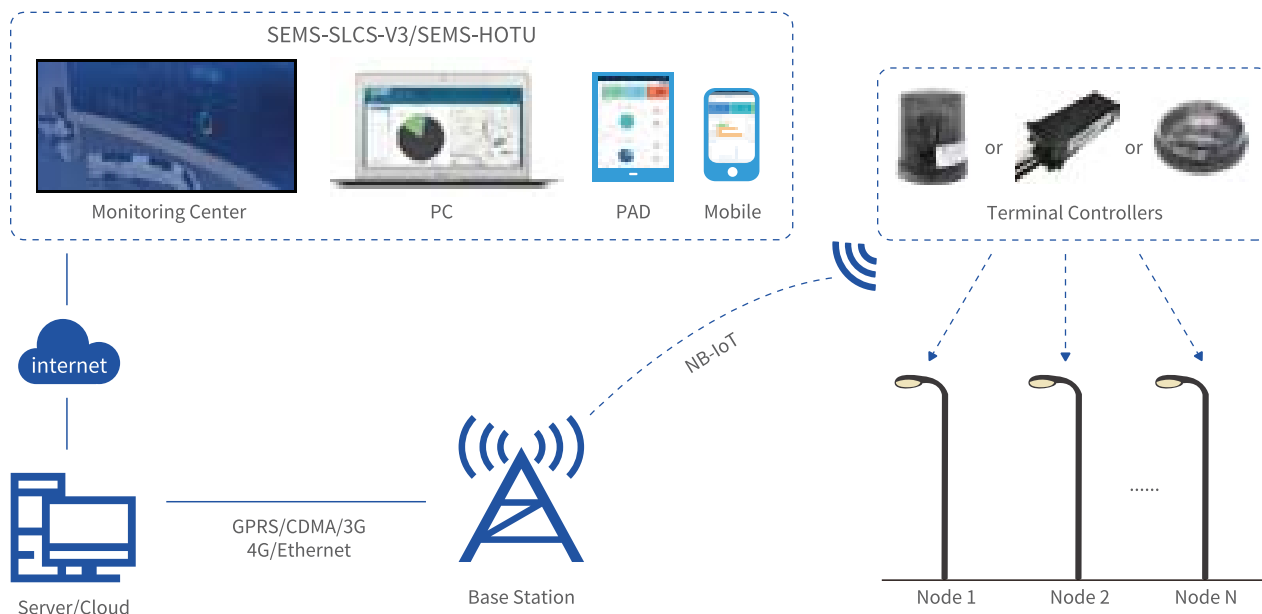


Optional function

- Real time clock
- GPS module
- Tilt-sensor module
- Sensor input port
- Leakage of electricity

NB-IoT Solution

NB-IoT System Structure



Terminal Controller TC

SEMS-TC09D PID: NBP2



Product description

Work with web-based software allows remote configuration, monitoring, control, reporting, alarm and update

- NB-IOT communication mode.
- AC input 86-305V, 50/60 Hz, switch capacity max. 16 A
- Dimming: 0-10V or PWM or DALI
- Operating conditions: -40°C to +85°C, 20% to 90% Rh non-condensing; IP65
- Product size(L*W*H): 153.5*69.2*41.4mm



Optional function

- Real time clock
- GPS module
- Tilt-sensor module
- Sensor input port
- Leakage of electricity

Terminal Controller TC

SEMS-TC09C PID: NBN0



Product description

Work with web-based software allows remote configuration, monitoring, control, reporting, alarm and update

- NEMA 7 pin socket connected (ANSI C136.41)
- NB-IoT communication mode.
- AC input 86-305V, 50/60 Hz, switch capacity max. 16 A
- Dimming: 0-10V or PWM or DALI
- Operating conditions: -40°C to +85°C,
20% to 90% Rh non-condensing; IP65
- Product size(L*W*H): $\Phi 86*98\text{mm}$



Optional function

- Real time clock
- GPS module
- Tilt-sensor module
- Photocell Sensor module

Terminal Controller TC

SEMS-TC09D PID: NBZ0/S



Product description

Work with web-based software allows remote configuration, monitoring, control, reporting, alarm and update

- Zhaga standard socket (book 18), Sensor ready
- NB-IoT communication mode.
- DC input: 12-28V
- Dimming: DALI
- Operating conditions: -40°C to +70°C,
20% to 90% Rh non-condensing; IP65
- Product size(L*W*H): $\Phi 80*65\text{mm}$

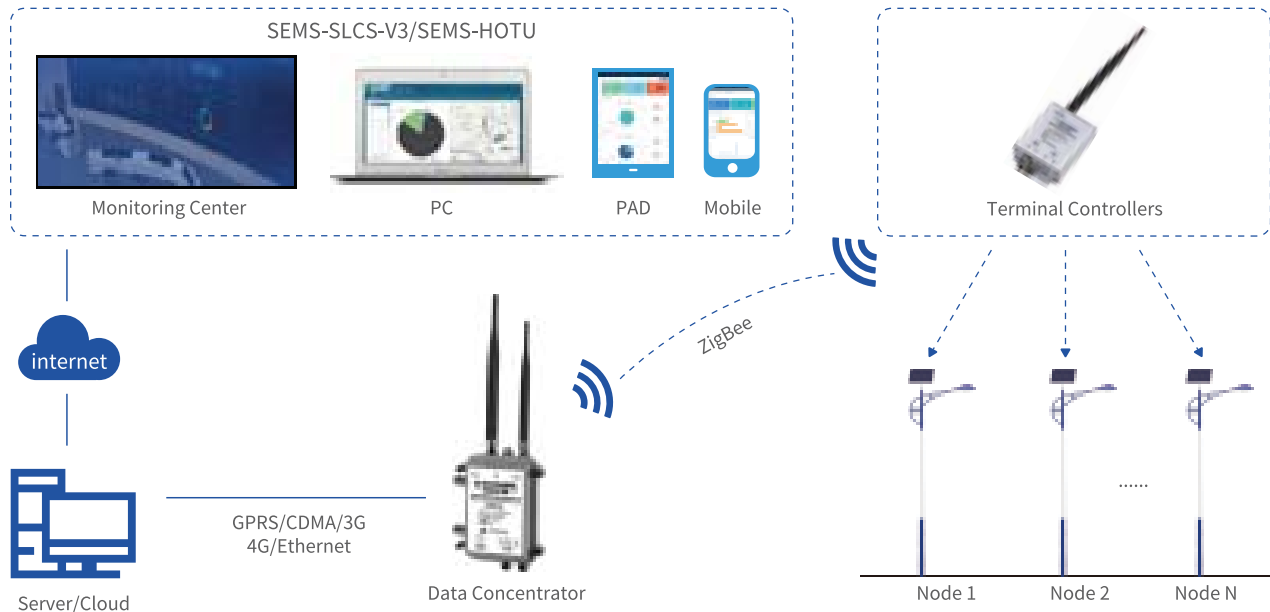


Optional function

- Real time clock
- GPS module
- Tilt-sensor module

ZigBee Solar Lighting Solution

ZigBee Solar Lighting System Structure



Terminal Controller TC

SEMS-TC12WE



Product description

Work with web-based software allows remote configuration, monitoring, control, reporting, alarm and update

- ZigBee communication mode.
- DC input 9-32V,
- Dimming Port: RS485
- Operating conditions: -40°C to +85°C,
20% to 90% Rh non-condensing; IP65
- Product size(L*W*H): 106 *66 *27mm



Data Concentrator DC

SEMS-DC08ZE



Product description

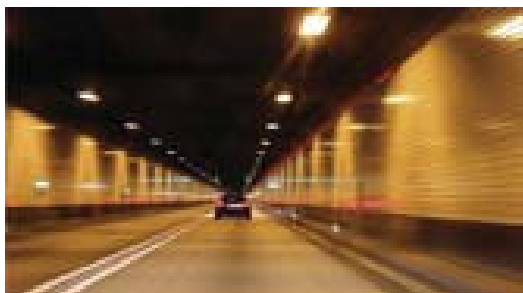
Work with web-based software allows remote configuration, monitoring, control, reporting, alarm, data and update, self-running based on astronomical calendar.

- ZigBee communication mode.
- DC input 0-10V
- Port: 2G/3G/4G, Ethernet, RS485
- Operating conditions: -40°C to +70°C,
20% to 90% Rh non-condensing; IP65
- Product size(L*W*H): 215 *172*70mm



Extension Modules

Device Name	Model. No.	Figure	Specification
Photo Sensor	SEMS-LUXALL(V4.0R)		Multi-directional illuminance sensor: 12-18VDC, 380nm~730nm, 0~200000Lux, RS485 communication, IP65, 0~+70°C, 0%~70%RH, (non-condensing)
Meter Module	SEMS-METER		with three-phase voltage, current power, frequency, PF, kw, etc, measure-meet, RS485-modbus, IP51, -30~+70°C, 20%~90%RH, 145*90*40mm(L*W*H)
DIDO Module	SEMS-8DIDO-2		8DIDOModule, 86-264VAC, 8-channel digital input(DI), 8-channel relay output(DO), RS485-modbus;24W DC, IP50, -25 to+70°C, 5%to 95%RH, 145*90*45mm(L*W*H)
Anti-theft extended module	SEMS-FD06		Anti-theft module, 220VAC or 12VDC power supply, 6 channels monitor, IP51, -20~+80°C, 25%~85%RH, 145*90*40mm(L*W*H)
Anti-theft terminal	SEMS-RTU-FD		Anti-theft terminal, AC input range:176-264VAC, IP65, -20~+90°C, 20%~90%RH, 198*91*46mm(L*W*H)



LED single lamp intelligent upgrading project at the Li-Wan Tunnel in Hubei



LED tunnel light single lamp intelligent upgrading project at the Yan'an Tunnel in Shanghai



Landscape lighting control project in Dingtao, Linfen



Landscape lighting control project in Fufeng New Town, Baoji



Intelligent solar single lamp project in Kunming, Yunnan



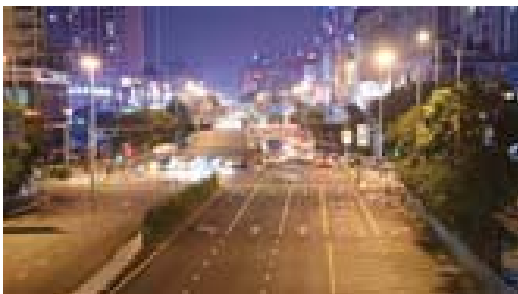
Intelligent solar single lamp project in Delingha Economy Industrial Park, Qinghai



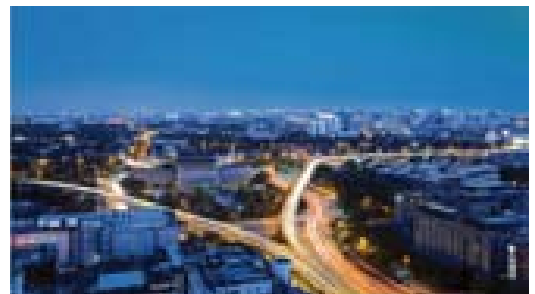
Demonstration site of the city public management IoT big data platform in Tong'an, Xiamen



Demonstration site of the city public management IoT big data platform in Hua'an, Zhangzhou



Demonstration site of the city public management IoT big data platform in Haiyuan, Ningxia



City public management IoT big data platform in Zhuhai, Guangdong



City public management IoT big data platform in Nanjing Economic and Technological Development Zone

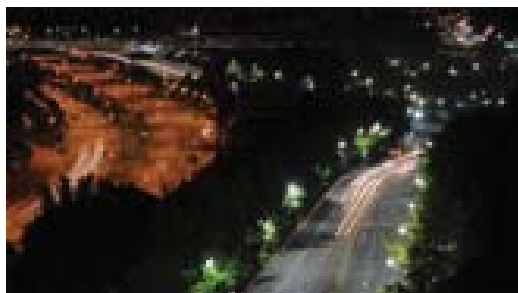


City public management IoT big data platform in Lanzhou, Gansu

Classic cases



Intelligent LED single street lamp control project in Liangjiang New Area, Chongqing



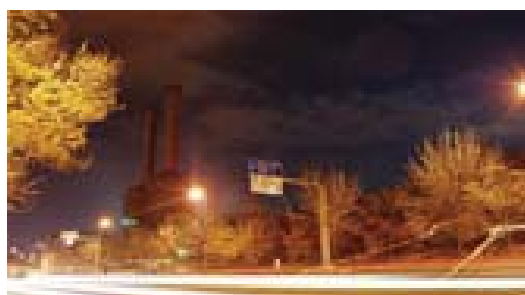
Intelligent LED single street lamp control project in Kaili City, Guizhou



Intelligent LED single street lamp control project in Nanshan District, Nanshan



Intelligent LED single street lamp control project in Nanshan District, Guangzhou



Intelligent single street lamp control project in Chengde City, Hebei



Intelligent single street lamp control project in Chengnan New District, Fuyang City, Anhui



Intelligent LED single street lamp control project in Paris, France



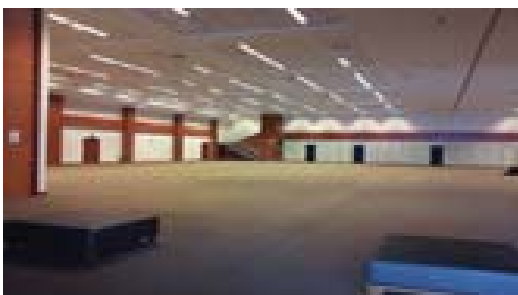
Intelligent LED single street lamp control project in Italy



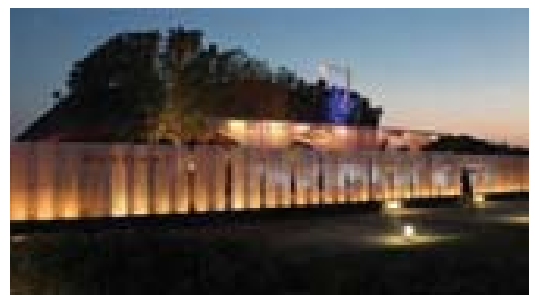
Intelligent LED single street lamp control project in Bangladesh



Intelligent industrial lighting control system in Philippines



Intelligent industrial lighting control project in India



Intelligent park lighting control system in U.S.A

The background of the page is a dark blue gradient. Overlaid on this are several layers of abstract digital graphics. These include glowing blue and purple lines, some straight and some curved, creating a sense of motion and depth. There are also faint, semi-transparent binary code (0s and 1s) scattered throughout the scene, particularly in the lower right quadrant. The overall aesthetic is futuristic and technological.

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