

Smart Street Lighting Smarter City

PRODUCT CATALOGUE

Leading provider & operator of digital
energy solution based on light pole

XIAMEN IOTCOMM TECHNOLOGY CO., LTD.



+86 592 252 0936

oversea_sales@iotcomm.com

www.iotcomm.com

No. 188, Tongji North Road, Tong'an District, Xiamen, China

XIAMEN IOTCOMM TECHNOLOGY CO., LTD.

Make the street lighting
smart, easy and least cost

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Xiamen Iotcomm Technology Co., Ltd.



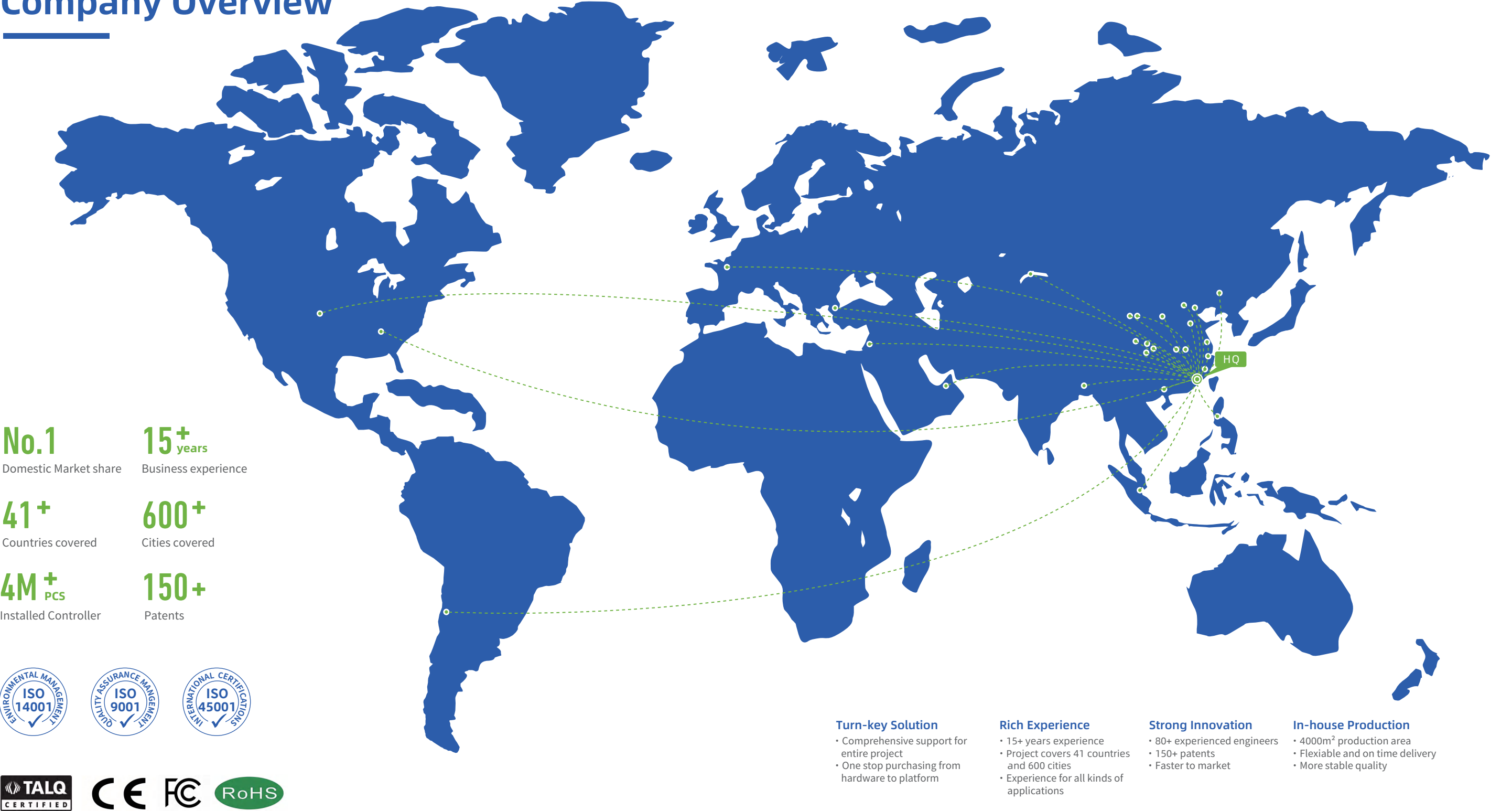
With over 4 million pieces smart controllers deployed across more than 600 cities in 41 countries, IOTCOMM stands as a leading total solution provider for smart street lighting and smart poles. Since 2010, we have been dedicated to making our planet greener and our cities more intelligent by delivering advanced smart street lighting solutions.

We offer various kinds of communication solutions for street, tunnel, solar, sports, industrial, and landscape lighting, including Dual-mode (PLC+RF433), Wi-SUN, Zigbee, LTE Cat.1, PLC, NB-IoT, LoRaWAN, and RS485.

We provide one-stop solutions for diverse smart pole applications—integrating CCTV cameras, LED displays, speakers, charging stations, sensors, and etc. Our professional IoT lighting HOTU platform, enables clients to control, manage, operate, and maintain both lighting systems and all smart pole devices through a single, unified platform.

IOTCOMM is your smart choice for smart street lighting and smart poles.

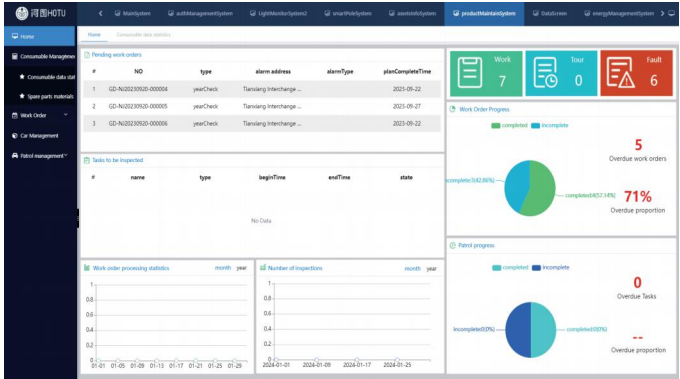
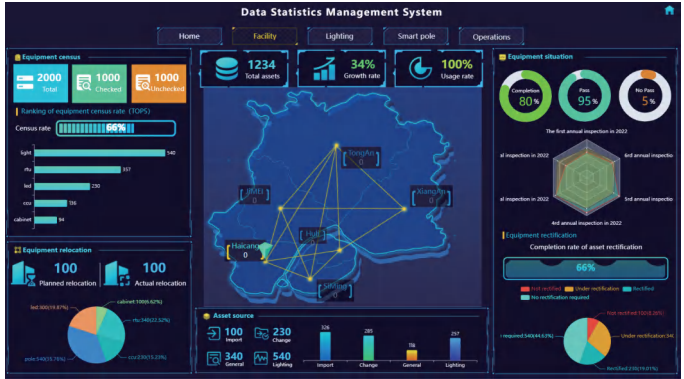
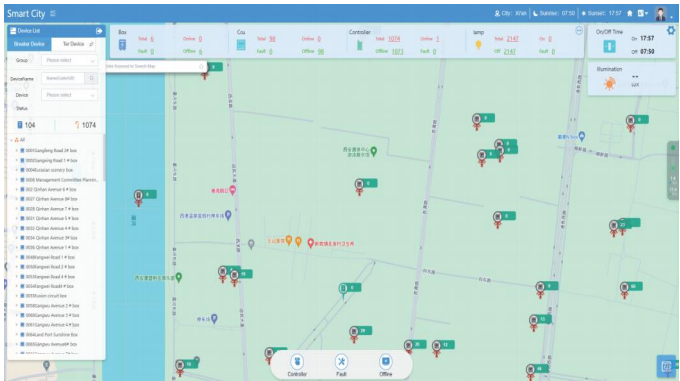
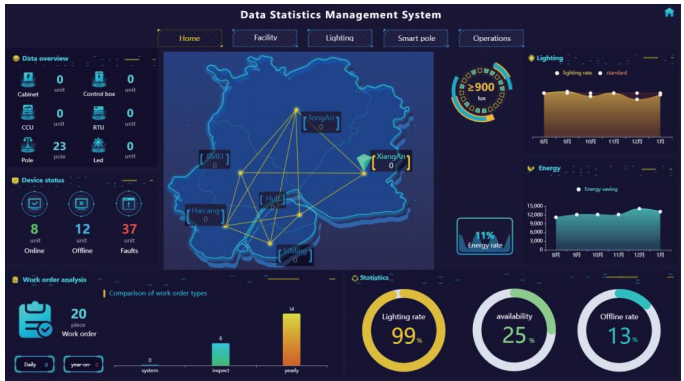
Company Overview



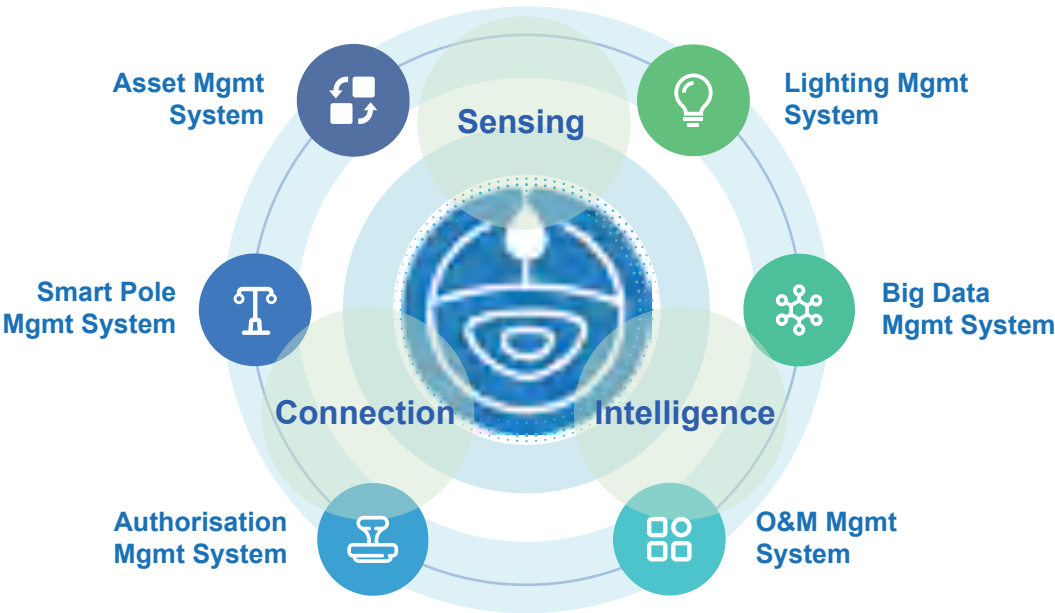
Intelligent Lighting IoT Platform

HOTU

HOTU is a powerful Intelligent Lighting IoT Platform for smart street lighting and 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

Modular Design

Choose the applications as per demand

Multi-dimensional Big Data

Facility big data
Lighting big data
O&M big data
Smart pole big data

Flexible Configuration

Work order process
Management strategies

Configurable Base Map

Google map
Baidu map
Other maps

Supports Multiple Terminals

Video wall
Computer/laptop
Tablet, Mobile

Supports Capacity Expansion

Expansion for more application
Expansion for more devices

Solution Benefits

For Cities&Government

- Create a more attractive and safe environment.
- Reduce energy cost up to 75%.
- Save cost on operation & maintenance up to 50%.
- Minimize crime through adequate public light.
- Greener city with lower carbon emissions.

For Citizens

- Safer daily life on roads with on-demand traffic light.
- Live better with less light pollution because of suitable lighting period and brightness.
- Better environment by less carbon emissions.

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.



Smart

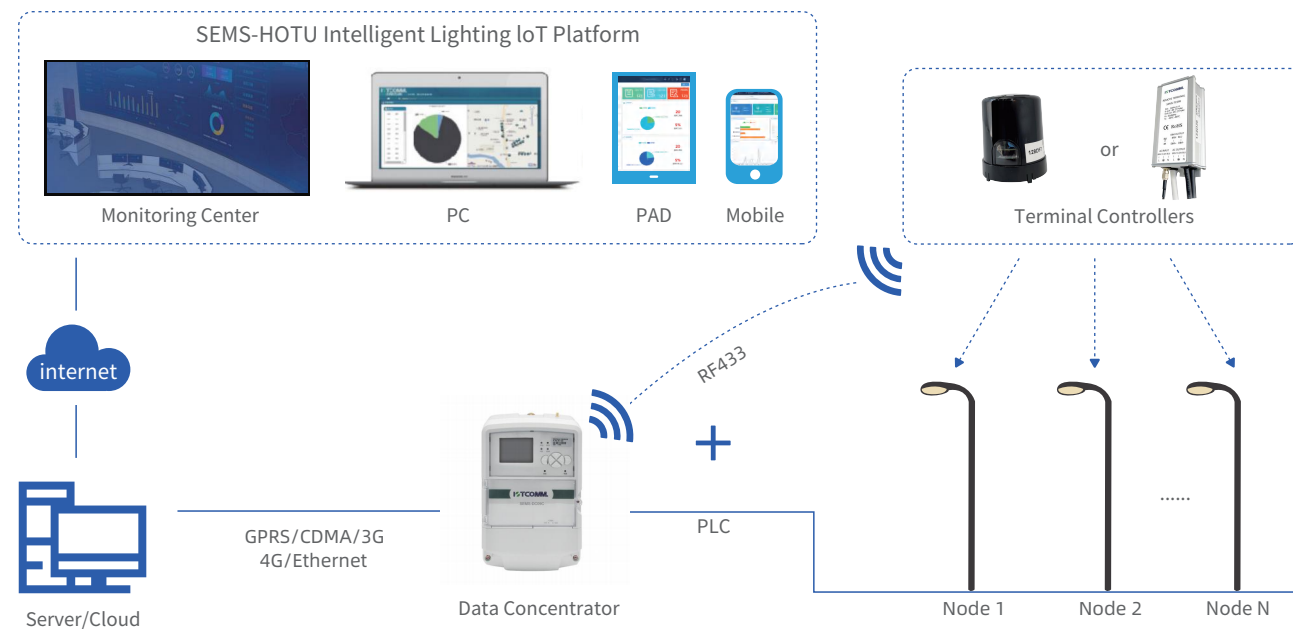
Lighting Solutions

We provide comprehensive solutions of **Dual-mode(PLC+RF433)**, **Wi-SUN**, **Zigbee**, **LTE Cat. 1**, **PLC**, **NB-IoT**, **LoRaWAN** and **RS485** for street, tunnel, solar; sports, industrial and landscape lighting.

Dual-Mode (PLC+RF433) Solution

Smart Street Lighting

System Structure



Product



NEMA
Terminal Controller



Built-in
Terminal Controller

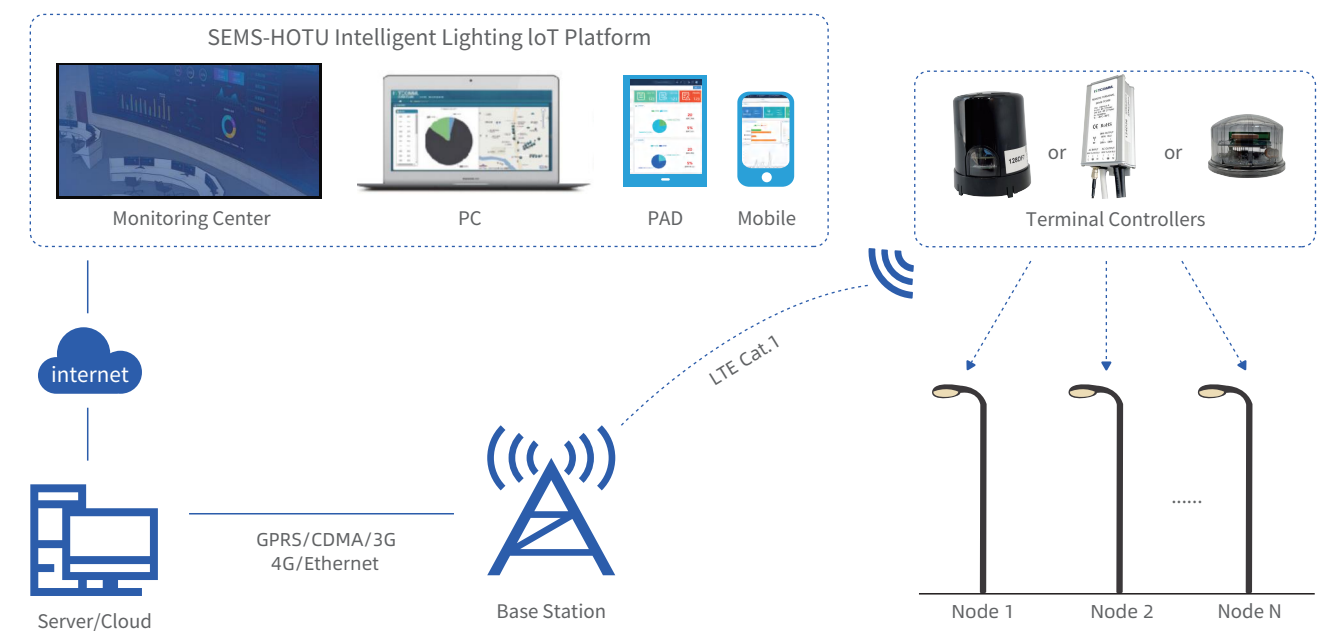


Data Concentrator

LTE Cat.1 Solution

Smart Street Lighting

System Structure



Product



NEMA
Terminal Controller



ZHAGA
Terminal Controller

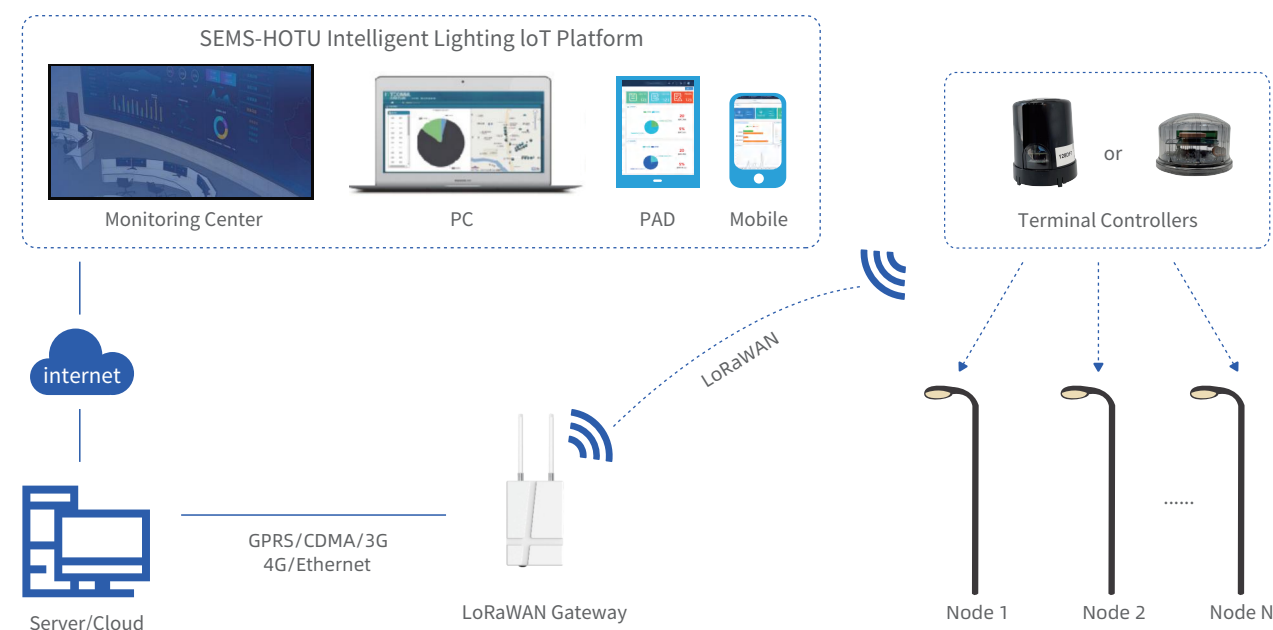


Built-in
Terminal Controller

LoRaWAN Solution

Smart Street Lighting

System Structure



Product



NEMA
Terminal Controller



ZHAGA
Terminal Controller

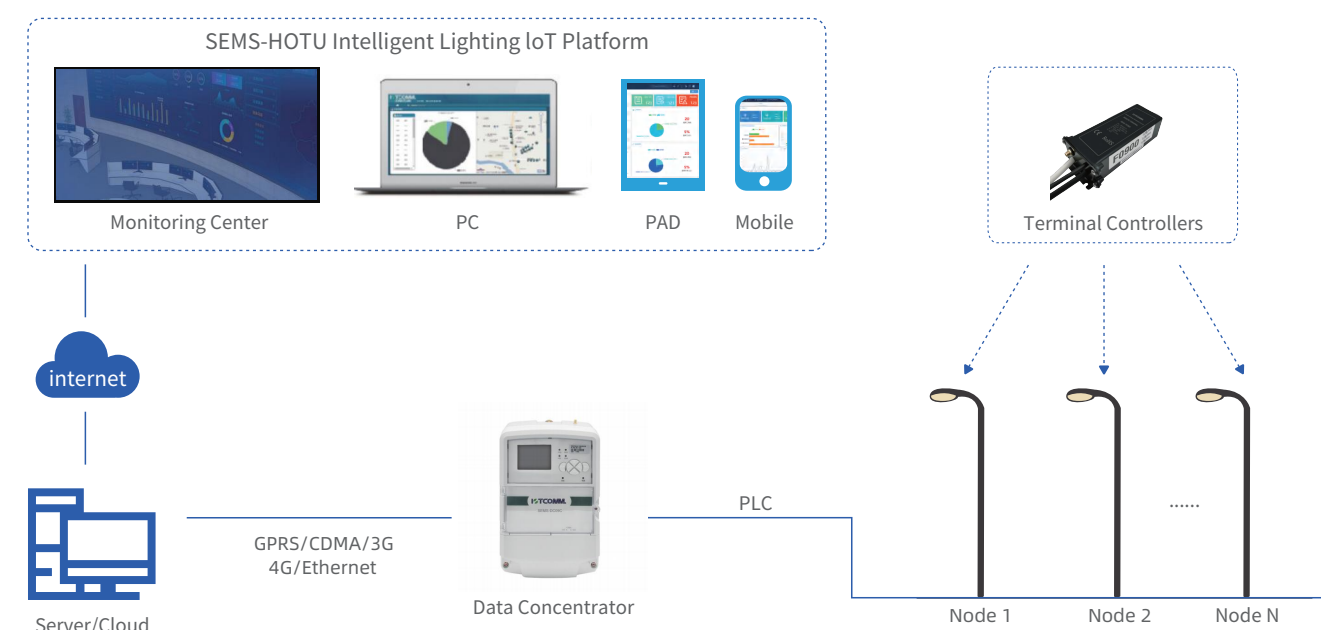


Gateway

PLC Solution

Smart Street Lighting

System Structure



Product



Built-in
Terminal Controller

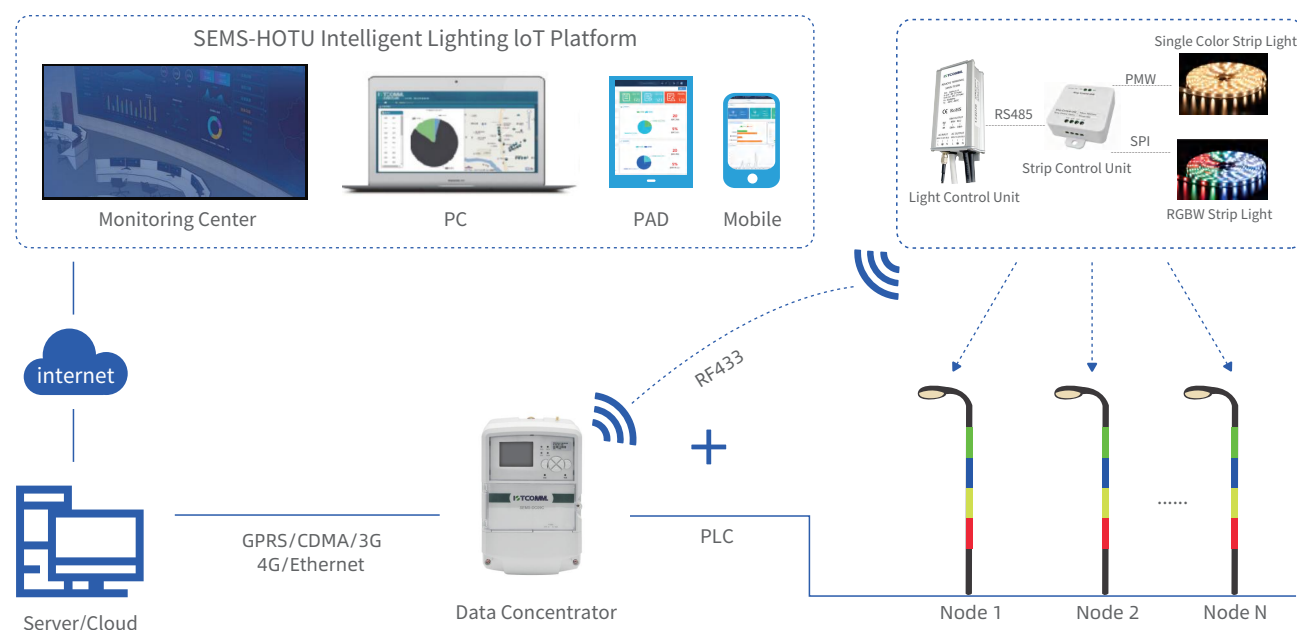


Data Concentrator

Dual-Mode (PLC+RF433) Solution

Smart Street Lighting with Strip

System Structure



Product



Built-in
Terminal Controller

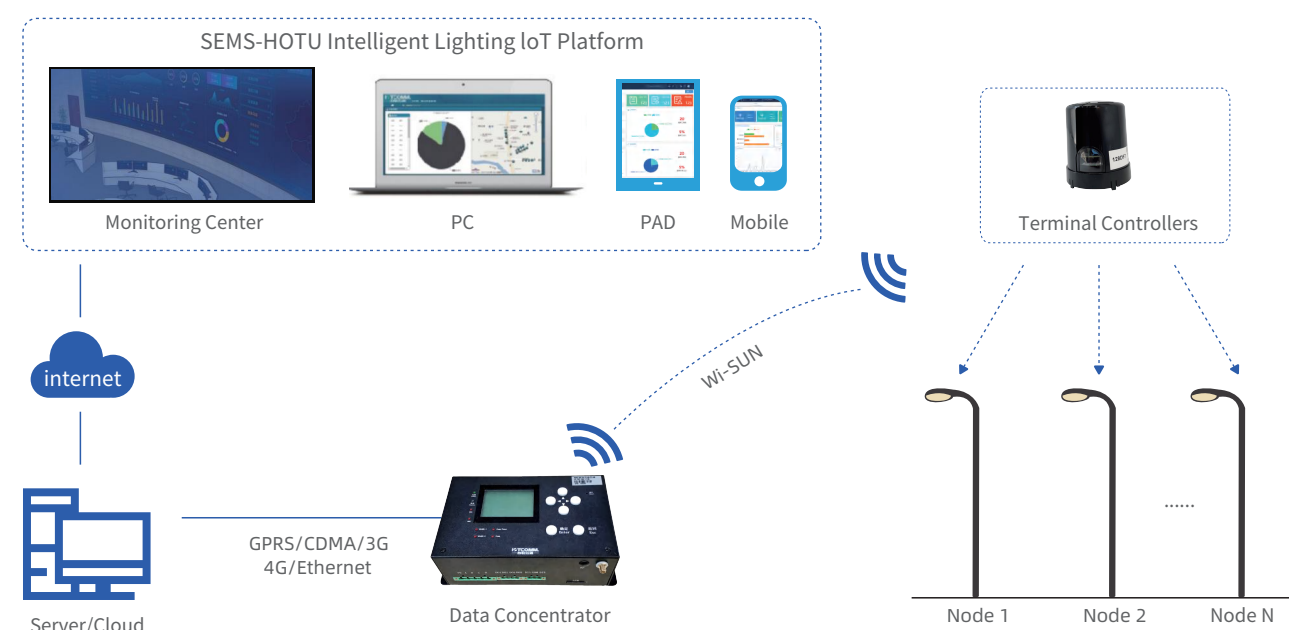


Data Concentrator

Wi-SUN Solution

Smart Street Lighting

System Structure



Product



NEMA
Terminal Controller

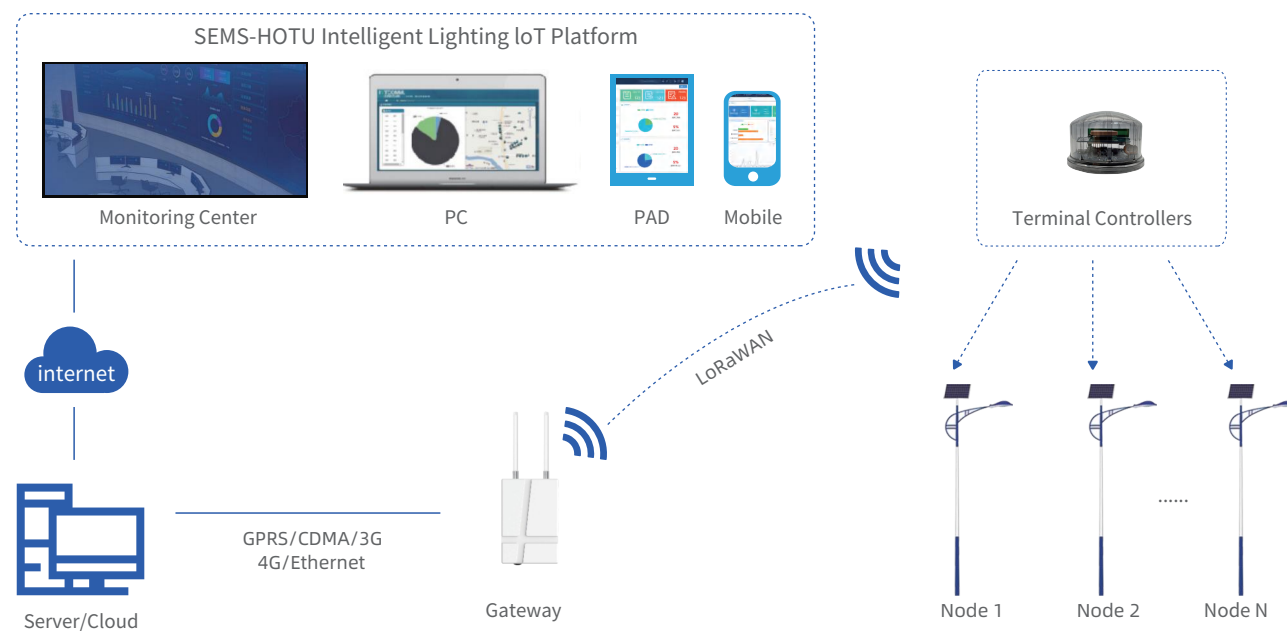


Data Concentrator

LoRaWAN Solution

Smart Solar Street Lighting

System Structure



Product



ZHAGA
Terminal Controller

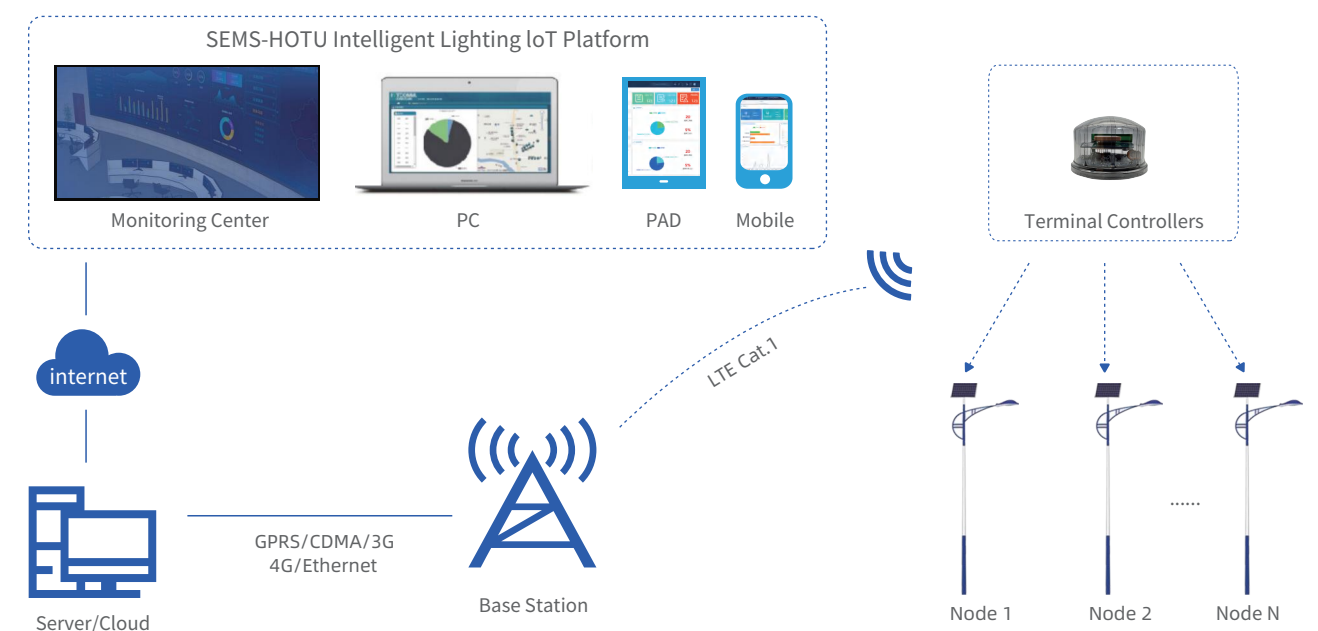


Gateway

LTE Cat.1 Solution

Smart Solar Street Lighting

System Structure



Product

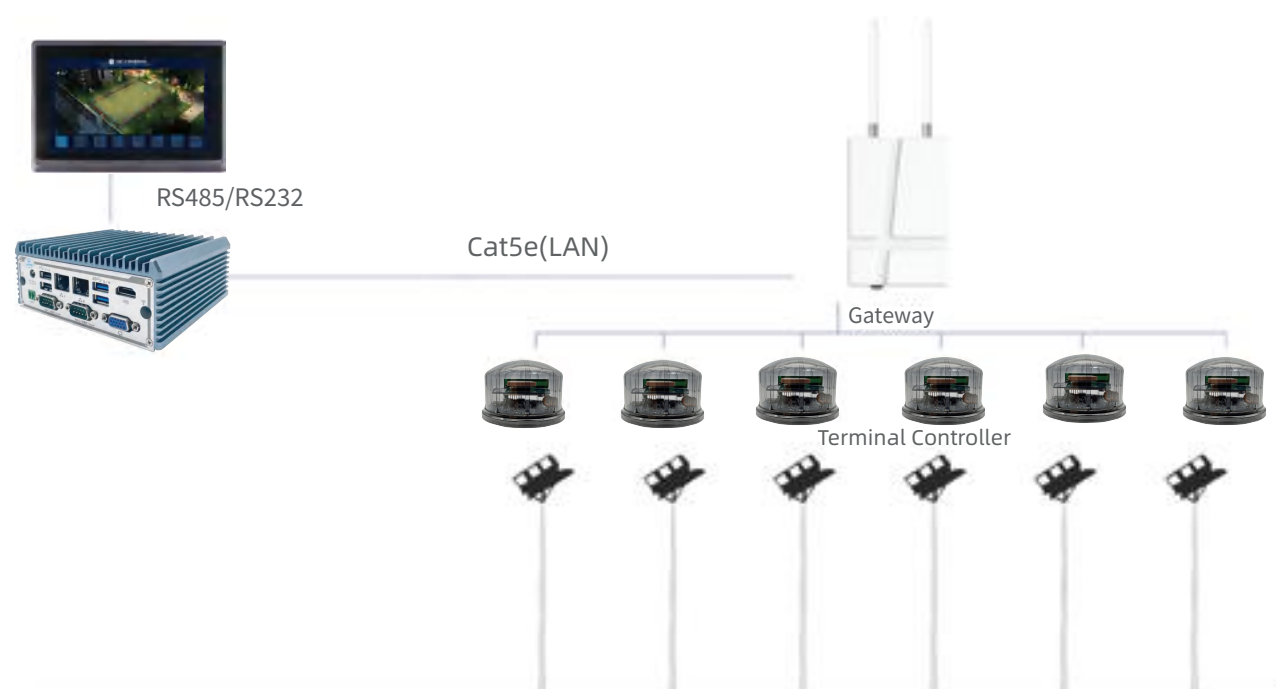


ZHAGA
Terminal Controller

LoRaWAN Solution

Smart Sports Lighting

System Structure



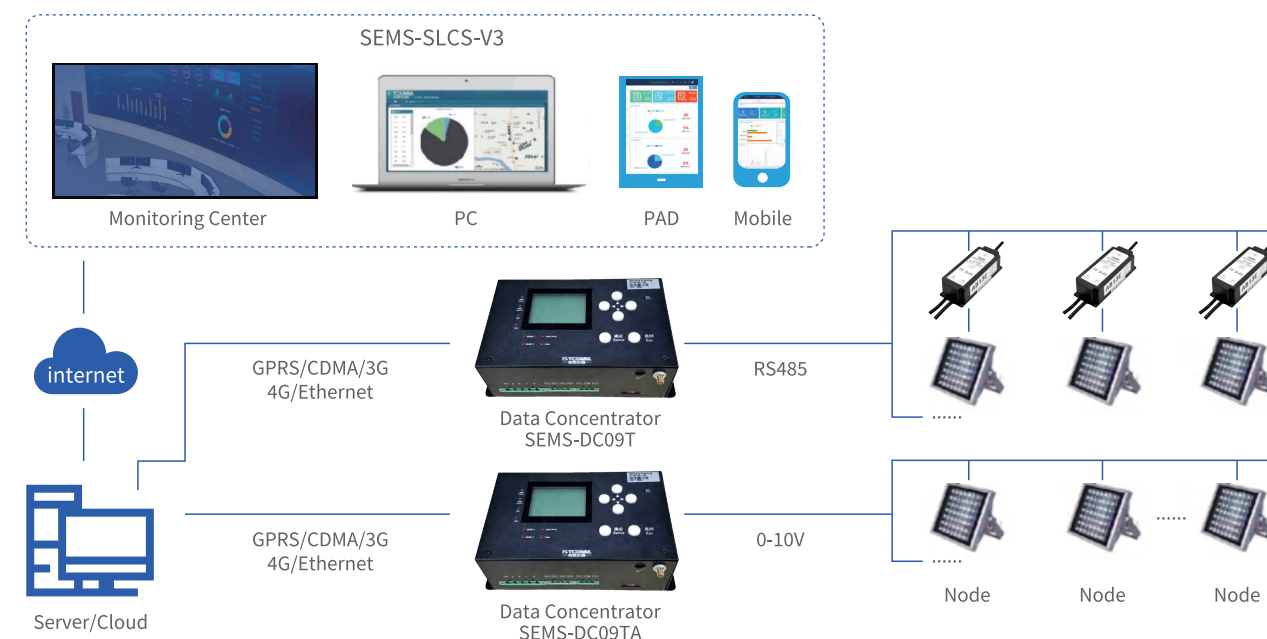
Product



RS485 Solution

Smart Tunnel Lighting

System Structure



Product



HARDWARE

Support PLC, Dual-mode, LoRaWAN, LTE Cat.1, ZigBee, NB-IoT, Wi-SUN and other communication modes.All products are independently developed.

Terminal Controller TC

ZHAGA SERIES

Product description

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

- Zhaga standard socket (book 18)
- Operating conditions: -40°C to +85°C, 20% to 90% Rh non-condensing; IP66
- Product size(L*W*H): Φ80*65mm



Communication Mode

- LTE Cat.1/LoRaWAN

Optional function

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

Terminal Controller TC

NEMA SERIES

Product description

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

- NEMA 7 pin socket connected (ANSI C136.41)
- 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; IP66
- Product size(Dia*H): Φ84*98mm



Communication Mode

- LTE Cat.1/Dual-Mode/LoRaWAN/Wi-SUN

Optional function

- Real time clock
- GPS module
- Tilt-sensor
- Photocell Sensor
- Outage alarm
- Temperature detection
- Electricity leakage detection

Terminal Controller TC

BUILT-IN SERIES

Product description

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

- AC input 86-305V, 50/60 Hz, switch capacity max. 16 A
- Dimming: 0-10V or DALI
- Operating conditions: -40°C to +85°C, 20% to 90% Rh non-condensing; IP67
- Product size(L*W*H): 145*59.5*35.6mm

Communication Mode

- PLC/LTE Cat.1/Dual-Mode

Optional function

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



Data Concentrator DC

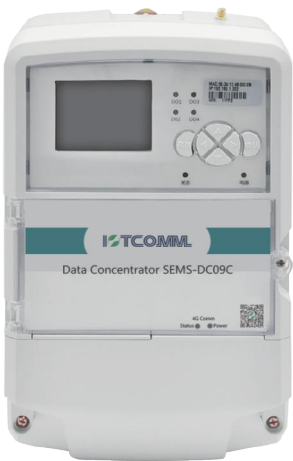
Product description

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

- LCD display
- IO Ports: 4 DO, 6 DI, 1 AI Input
- AC input 57-528V, 50/60 Hz, switch capacity max. 16 A
- Port: 2G/3G/4G, Ethernet, RS485
- Operating conditions: -35°C to +75°C, 5%-95%Rh non-condensing; IP51
- Product size(L*W*H): 290×180×95mm

Communication Mode

- PLC/ZigBee/Dual-Mode



Terminal Controller TC

Tunnel lighting

Product description

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

- 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(Dia*H): Φ140*56*40mm

Communication Mode

- RS485



Data Concentrator DC

Product description

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

- LCD display
- Port: 2G/3G/4G, Ethernet, RS-232
- AC input 90-400V, 50/60 Hz, switch capacity max. 16 A
- IO Ports: 1 DO, 2 DI, 12V backup battery, 6-way RS485/6-way 0-10V dimming port
- Port: 2G/3G/4G, Ethernet, RS-232
- Operating conditions: -35°C to +75°C, 20% to 90% Rh non-condensing; IP50
- Product size(L*W*H): 279*176*55mm

Communication Mode

- RS485/RS232



LoRaWAN Gateway

Product description

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

- Supported frequency/MHz: 470/868/915/923
- Input: 12VDC, M12 interface
- Power consumption $\leq 4.8W$
- Northbound networking: 4G or Ethernet or Wi-Fi
- POE power supply interface: RJ45
- Operating conditions: $-40^{\circ}C$ to $+70^{\circ}C$, 0% to 95%Rh non-condensing
- Product size(L*W*H): 243.1*164*105.3 mm



Communication Mode

- LoRaWAN

Data Concentrator DC

Product description

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

- LCD display
- IO Ports: 2 DO, 2 DI
- Input voltage: 12V DV
- Supported frequencies: 868MHz / 915MHz ~ 923MHz
- Port: 2G/3G/4G, 1 way RS-232, 2 ways RS485
- Operating conditions: $-40^{\circ}C$ to $+70^{\circ}C$, 20% to 90% Rh non-condensing; IP50
- Product size(L*W*H): 207*115*60mm



Communication Mode

- Wi-SUN

Central Gateway

Product description

Built-in smart sports light software platform with project management, equipment management, group management, scene management and scene control.

- Power supply : DC, power adapter power supply;
- Working voltage: 12VDC
- IO interface: with 2 *RTL8111H Gigabit power port, 2*RS232/485DB9 serial port,
- 4*USB3.0, 4*USB2.0, 1*HDMI, 1*VGA, 1*Line out, 1*MIC, 1*2pin
- Operating temperature: $-10^{\circ}C$ to $+50^{\circ}C$
Operating humidity: 5%-95%Rh non-condensing
- Product size(L*W*H): 141*126*56.5mm
- Installation: desktop installation/wall mounting



Touch screen

Product description

Supports multi-scenario application mode and user-defined scenario mode. reporting, alarm, data and update, self-running based on astronomical calendar.

- Power supply type: DC;
- Operating voltage: 5~36VDC
- Power consumption: the darkest backlight 1.2W; The brightest backlight is 5.5W;
- Display: 10-inch TFT LCD touch screen;
- Communication mode: serial port (RS485), Ethernet;
- Operating temperature: $-20^{\circ}C$ to $+70^{\circ}C$;
- Screen size(L*W): 222.6*125.3mm
- Product size(L*W*H): 280.5*191.5*34.0 mm



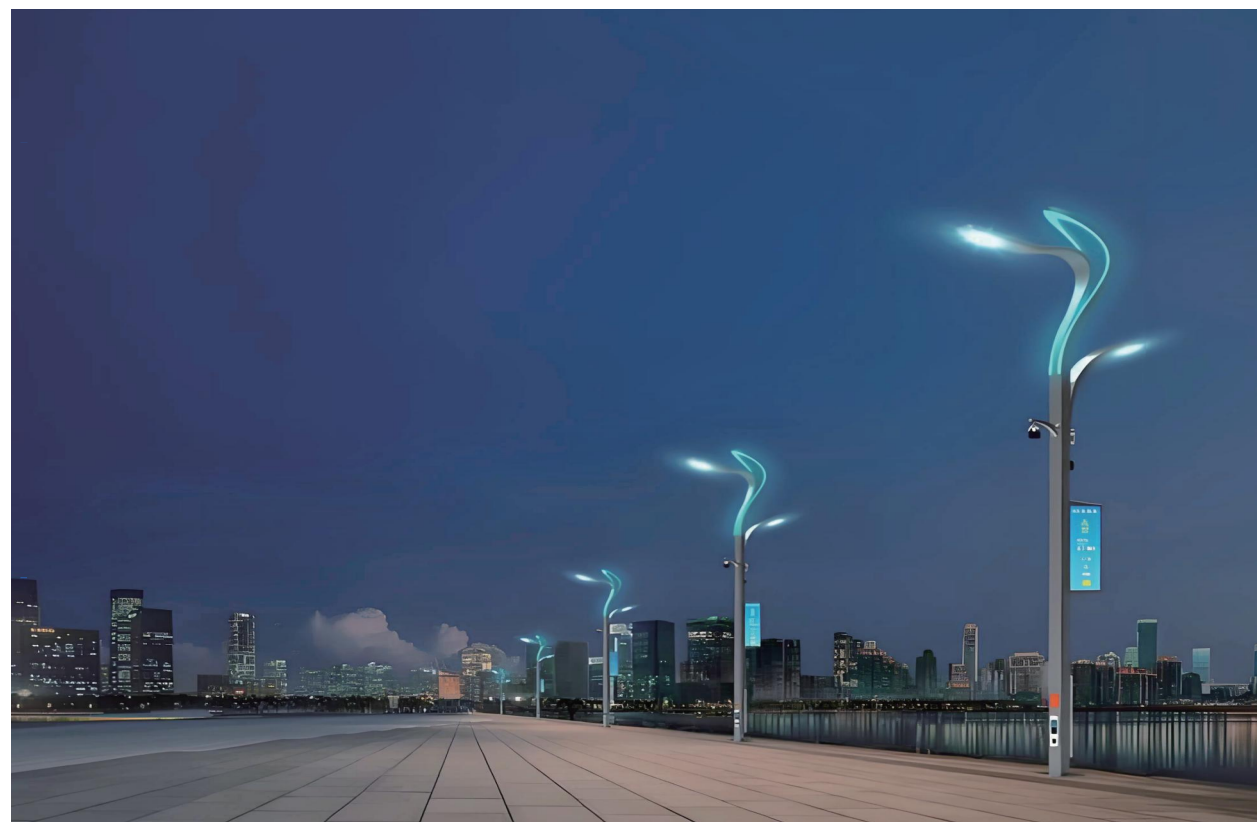
Communication Mode

- serial port (RS485), Ethernet

Smart pole solution

The intelligent multi-functional pole is a new generation of integrated urban infrastructure that is suitable for modern smart city construction. IOTCOMM smart pole solution integrates various functional modules such as smart lighting, CCTV camera, LED display, charging station, sensor and so on.

It effectively reduces overall construction and operation costs, and can be applied in scenarios such as urban roads, industrial parks, residential communities, and cultural and tourism scenic spots, providing comprehensive convenient services.



Smart pole



| Classic cases



Smart Street lighting project
Location:Shanghai | Quantity:40,000+



Smart Street lighting project
Location:Gansu | Quantity:50,000+



Smart Street lighting project
Location:Lasa | Quantity:40,000+



Smart Street lighting project
Location:Bangkok, Thailand | Quantity:30,000+



Smart Street lighting project
Location:Chengdu | Quantity:210,000+



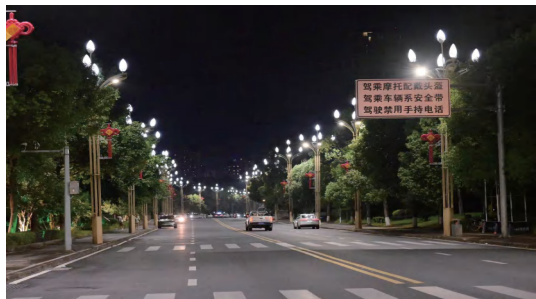
Smart Street lighting project
Location:Tianjin | Quantity:27,000+



Smart street lighting project
Location:Chongqing | Quantity:30,000+



Smart Street lighting project
Location:Santiago, Chile | Quantity:40,000+



Smart Street lighting project
Location:Guizhou | Quantity:30,000+



Smart Street lighting project
Location:Foshan | Quantity:31,000+

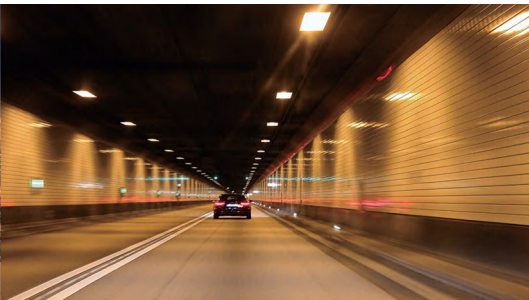


Smart Street lighting and Smart Pole
Location:Xiamen



Smart Street lighting project
Location:Dhaka, Bangladesh | Quantity:40,000+

| Classic cases



Smart tunnel lighting project
Location: Li-Wan tunnel in Hubei



Smart tunnel lighting project
Location: Yan'an tunnel in Shanghai



Smart pole project Location: Shanxi



Smart pole project Location: Tongan



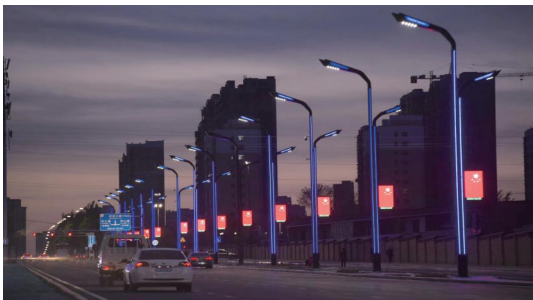
Smart port lighting project
Location: Haitian port in Xiamen



Smart port lighting project
Location: Putou port in Putian



Smart pole project Location: Xiongan



Smart pole project Location: Shanxi



Smart solar lighting project
Location: Kunming, Yunnan



Smart solar lighting project
Location: Delingha Industrial Park, Qinghai



Smart pole project Location: Beijing



Smart pole project Location: Chongqing