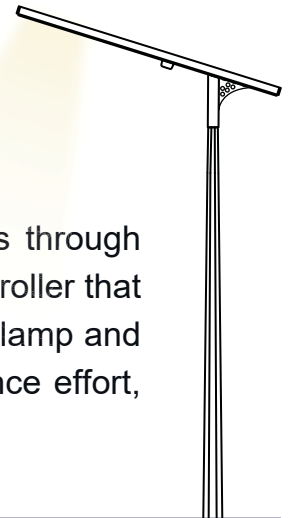
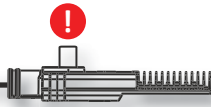


# LTE



**LTE** system enables intelligent control of mains-powered street lights through reliable cellular communication. Each light is equipped with an LTE controller that supports remote on/off switching, dimming, and real-time monitoring of lamp and electrical status, allowing centralized management, reduced maintenance effort, and improved energy efficiency.

## LTE AC Powered LED Street Lighting

- Enables intelligent control of mains-powered street lights through reliable cellular communication.
- Each light is equipped with an LTE controller that supports remote on/off switching, dimming, and real-time monitoring of lamp, allowing centralized management, and reduced maintenance effort.

## LTE DC Powered LED Solar Street Lighting

- Monitors lamp operation, battery charging and discharging status, and system performance in real time, ensuring stable operation, efficient energy usage, and convenient remote management without the need for wired connections.

## LTE Devices

- Street Light Controller (LTE18AC / LTE68DC)

## Area of Application

- Advantage for scattered locations
- Compound Area
- Residential Area
- Highway

# Connector Diagram



**Light Controller**  
LTE18AC



e-SIM

or



**Solar Light Controller**  
LTE68DC



Micro-SIM  
(Optional)

Each street light is installed with a Light Controller. The controller enables remote on/off switching, dimming, and lamp status monitoring.

Using the LTE (4G) cellular network, each controller connects directly to the central management platform—so no gateway is required. This allows every street light to be monitored and controlled individually in real time, making deployment simple and management more efficient.

## Features

### Light Controller

LTE18AC



#### Electrical Monitoring

Current, voltage, power, energy, frequency & temperature



#### Switching & Dimming

On/off control with 0–10V / PWM output



#### Protection & Fault Detection

Over-current and overload protection with lamp status detection



#### Smart Control Modes

Time schedule, location-based and photocell control (optional)



#### Lamp Compatibility

LED, HPS & metal halide lamps



#### LTE Connectivity

LTE bands B1 / B3 / B5 / B8



#### Industrial Temperature

Operates from -35°C to +85°C



#### Easy Installation

Fast response to central commands



#### OTA Firmware Upgrade

Remote software updates supported

## Specifications Light Controller (LTE18AC)

Parameters	Value	Remarks
Supply Voltage	AC85 - 277V	
Dimensions	Φ 84 mm x 97.8 mm	
IP Code	IP66	
Rated Output Current	2A	
Dimming Type	0 - 10V / PWM	Optional
Product Output	Single - phase AC	
Data Collection	U, I, P, Q, COSΦ	






Parameters	Value	Remarks
Transmit Power	23 dBm ± 2 dB	
Sensitivity	-97.5 dBm	
USIM Interface	1.8/ 3.0V, support SIM and USIM	Supports Telecom, Mobile, Unicom
Antenna Gain	3 DB	
Antenna VSWR	≤ 2.0	
Antenna Type	Built-in	






## Features

### Light Controller

LTE68DC



- 
**Zhaga Book 18 Interface**  
 Standard plug-and-play connection
- 
**DC 5V Input | RS485 Output**  
 Designed for solar lighting control
- 
**LTE Wireless Monitoring**  
 Real-time remote monitoring and control
- 
**Switching & Dimming**  
 Remote on/off, dimming, and battery/ load parameter control
- 
**System Status Monitoring**  
 Solar panel, battery, load & controller status

- 
**Fault Alarm**  
 Automatic fault detection and reporting
- 
**GPS Location (Optional)**  
 Location tracking for fault identification
- 
**Industrial Temperature**  
 Operates from -40°C to +85°C
- 
**LTE Frequency Bands**  
 FDD: B1 / B3 / B5 / B7 / B8 / B20 B28  
 TDD: B34 / B38 / B39 / B40 / B41
- 
**Easy Installation**  
 Fast response to central commands

## Specifications Light Controller (LTE68DC)

Parameter	Value
IP Code	IP66
Output Interface	RS485
Data Collection	U, I, P, Q, COSΦ
Wireless Frequency	As per channel plan (868MHz, 915MHz, 923MHz, etc.)

Parameter	Value	
Antenna Type	Built-in	
Antenna Gain	3dB	
Antenna VSWR	≤1.5	≤2.0
Transmission Distance	400M (*)	2KM