



www.theorylight.com



Theorylight

TLWE06 Super Gateway

Maximum transmission distance: 500 meters (open environment)



4G Network



Wi-SUN

CE RoHS

Applications

- Warehouse
- Workshop
- Parking
- Park
- Gymnasium
- Exhibition Hall
- Lot Corridor
- Street
- Shopping center

Features

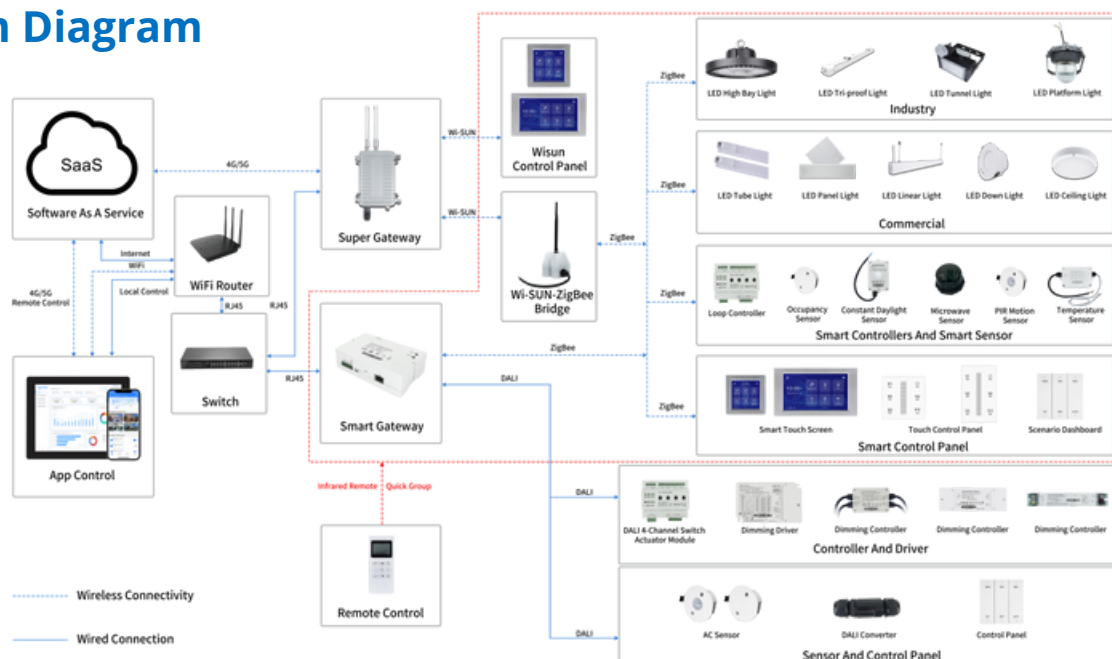
- Input Voltage 100-277Vac
- Built-in 100M network controller.
- One administrator account.
- Supports 60 Wi-SUN bridges or Wi-SUN panels.
- Supports 32 Wi-SUN groups.
- Supports 128 scenarios.
- 16 Wi-SUN bridges or Wi-SUN groups or ZigBee groups per scenario.
- Supports 180 timers.
- 10 Wi-SUN bridges or Wi-SUN groups or ZigBee groups per timer.
- Supports multiple gateways in the LAN.
- Supports over-the-air upgrades.



Product Description

TLWE06 is a Wi-SUN gateway that supports the Wi-SUN standard FAN1.0 protocol. This gateway can communicate with devices that comply with the Wi-SUN standard FAN1.0 protocol. The gateway needs to download relevant application software on the mobile phone and tablet to implement, scene, timing, group setting, binding and other operations; built-in button battery to ensure that the real-time clock continues to be accurate in the timing function.

System Diagram



Product Data

Protection class IEC	IP65
Warranty	5 Years Warranty
Communication Distance (open environment)	500m

Application Conditions

Operating Temperature	-40°C~85°C
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Controls and Dimming

Intelligent Control	Wi-SUN Modules/4G Network
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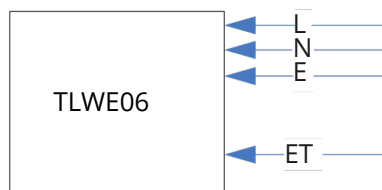
Operating and Electrical

Input Voltage	100-277Vac
Input Frequency	50/60Hz
Input Current	0.2A Max
Network Interface	Ethernet or 4G
Wireless Frequency (Wi-SUN)	863.1000MHz ~ 924.9450MHz

Mechanical and Housing

Structure Material	Die-cast Aluminum
Fixture Color	Silver
Mounting Option	Wall Mount/Pole Mount

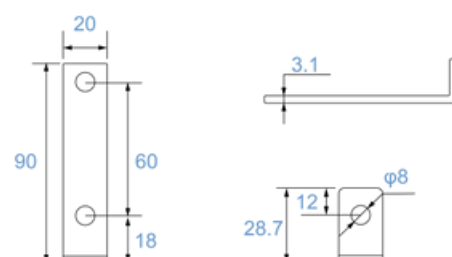
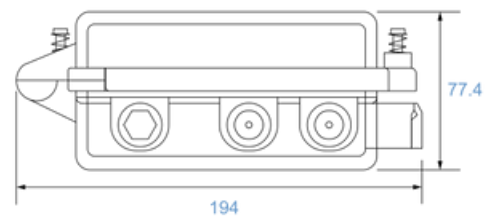
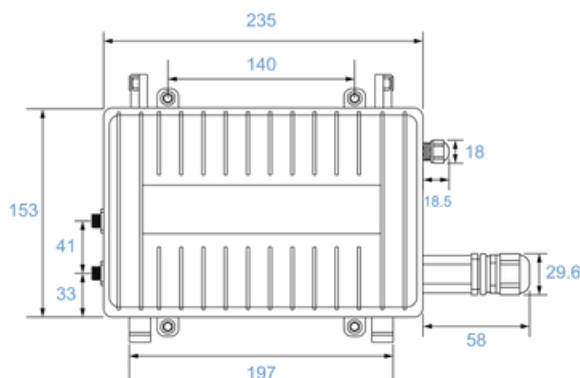
Wiring Diagram



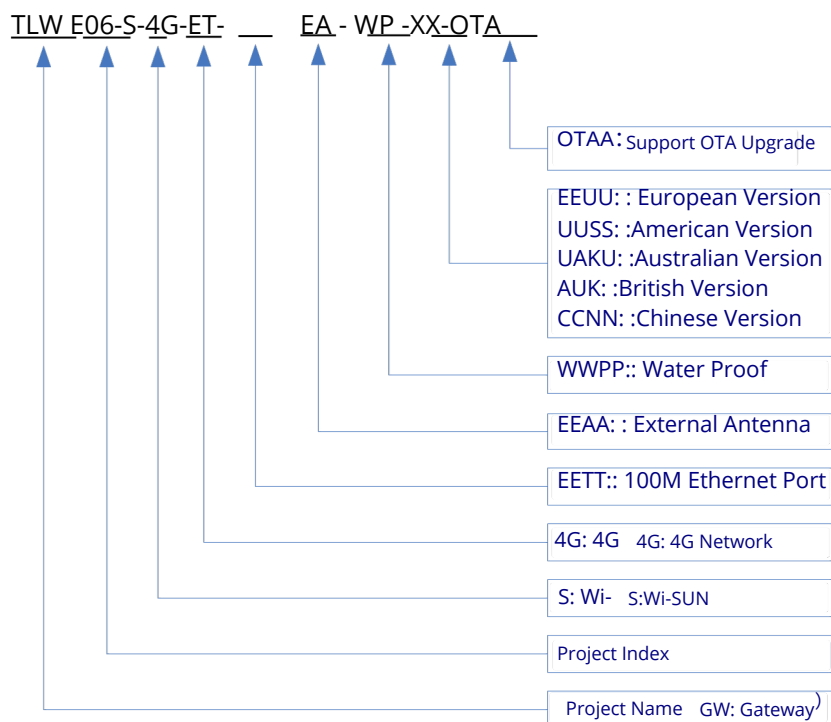
Terminals		Describe
Terminal Blocks	L	Input AC 100-277V Live Wire
	N	Input AC 100-277V Neutral
	E	Ground
RJ45 Terminals	ET	100M Ethernet interface

Drawing

Unit : mm



Part No.



Product Parameter

Model Number	Smart Modules	Input Voltage	Input Current	Communication Distance (open environment)	Operating Temperature
TLWE06-S-4G-ET-EA-WP-EU-OTA	4G Network Wi-SUN	100-277Vac	0.2A Max	500m	-40 ~ 85°C
TLWE06-S-4G-ET-EA-WP-US-OTA		100-277Vac			
TLWE06-S-4G-ET-EA-WP-UK-OTA		100-277Vac			
TLWE06-S-4G-ET-EA-WP-AU-OTA		100-277Vac			
TLWE06-S-4G-ET-EA-WP-CN-OTA		100-277Vac			

Package

Model Number	Product Net Weight (g)	Product Gross Weight (g)	Packing Size (mm)	Packaging
TLWE06-S-4G-ET-EA-WP-CN-OTA	1160 (Gateway only, no accessories for external antenna)	2030 (Includes two external antennas and other accessories)	361*208*141	1/PCS

Button Function

The key functions on the gateway are:

- Short press (<3 seconds) to send gateway information to the application software.
- Long press (>3 seconds and <8 seconds) to restore the login password of this gateway to 00000000 and set the gateway to DHCP mode. Long press (>10 seconds) to clear the association between the gateway and the SaaS account.

LED Indicator

The LED of gateway can do:

- Red light -indicates gateway connection failure.
- Green indicator light -indicates the gateway is connected successfully.

Battery

The gateway uses CR2032 batteries to power the real-time clock, so

- When the gateway is not connected to the Internet or mobile phone, the gateway power off and then power on again, the timing in the gateway can continue to work.
- When the battery is low, the application software displays a low battery warning.

Installation Instructions

- Set up a LAN environment: routers, switches, gateways, and servers are all on the same LAN.
- The network cable used by a gateway to connect to a router or switch must be less than 100m long.
- There should be at least 30cm of space between the gateway and the router.
- If the gateway is enclosed in a metal box, use an external antenna extension cable and install the antenna head outside of the metal box (as iron can shield signals).

Software Operation

- Download the Theorylightpro app from the APP store then install the app.
 - Open the installed Theorylightpro app after the gateway is powered on.
 - Log in to this gateway via Admin and the default password 00000000 .
 - For detailed software operations, refer to the "Theorylightpro Operation Manual.pdf" .
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Typical Working Scenarios



Technology's Theorylight Super Gateway supports the Wi-SUN standard FAN1.0 protocol. Mobile phones or server software can control power or controller devices through the gateway, set the switch or parameters of the sensor, bind the wall switch to the driver or controller, run the timing, obtain all device status, etc.



Users can use the Theorylight remote control to set the sensor parameters of Theorylight lamps for groups or individual lamps with one click; they can also be controlled through the server or APP.

The Theorylight smart gateway can communicate with devices that comply with the Wi-SUN standard FAN1.0 protocol and can be widely used in different scenarios such as thermal power plants, warehouses, factories, parking lots, streets, squares, etc.