



www.theorylight.com



Theorylight

TLGE08 Wi-SUN-ZigBee Bridge

Maximum transmission distance: 100 meters (open environment)



Zigbee Mesh
Network Control



Wi-SUN



Theorylight
Remote
Control



Zoning & Grouping

CE RoHS

Applications

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

Features

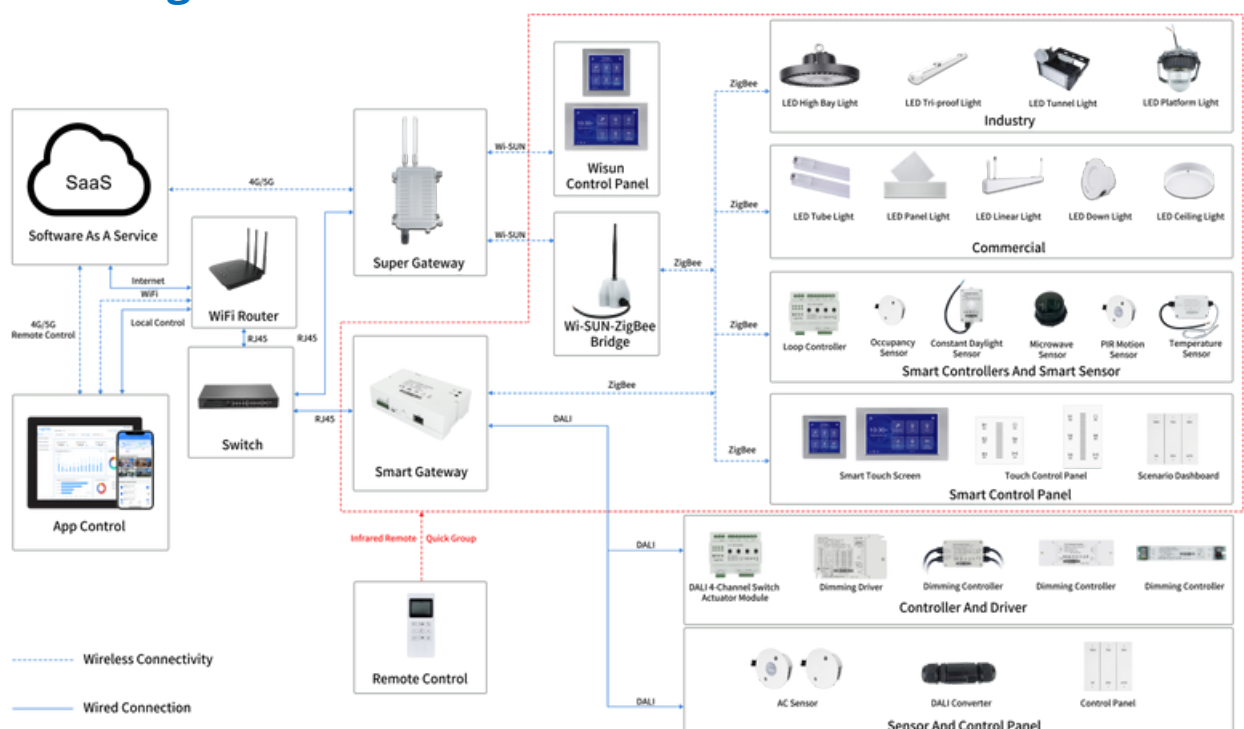
- Input Voltage 100-277Vac.
- Support Wi-SUN standard FAN1.0 protocol.
- Support ZigBee 3.0 standard protocol.
- Can be controlled by infrared remote control.
- Support up to 30 MAWA series products.
- IP65 waterproof grade.
- Support OTA air upgrade.
- Working temperature -40 ~ 80°C.



Product Description

TLGE08 is a bridge with built-in Wi-SUN and ZigBee transceiver modules for signal conversion. It can be used with our MW smart lamps through mobile phone APP, remote control and computer software to achieve fully automated intelligent control.

System Diagram



Product Data

Protection class IEC	IP65
Warranty	5 Years Warranty
IA communication distance (open environment)	30m
EA communication distance (open environment)	100m

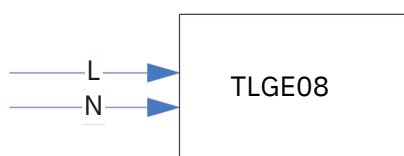
Application Conditions

Operating Temperature	-40°C~80°C
-----------------------	------------

Controls and Dimming

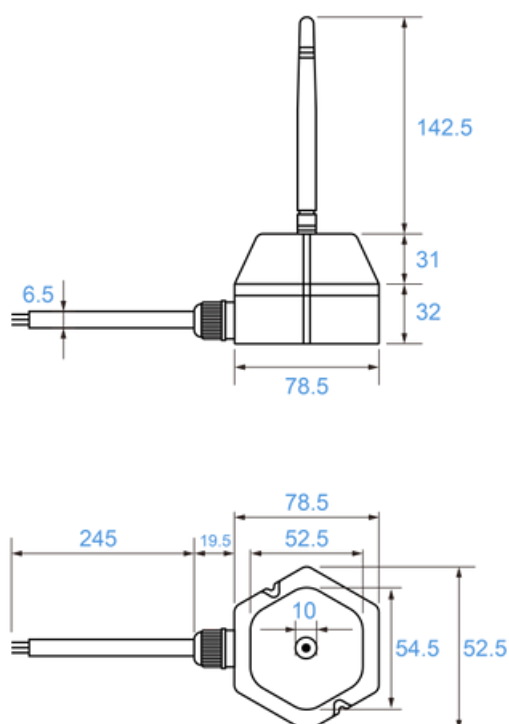
Intelligent Control	ZigBee/Wi-SUN Modules
---------------------	-----------------------

Wiring Diagram



Drawing

Unit : mm



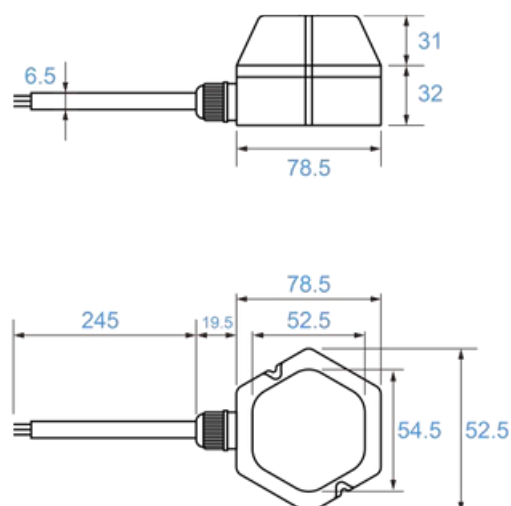
Operating and Electrical

Input Voltage	100-277Vac
Input Frequency	50/60Hz
Input Current	0.1A Max
Wireless frequency (ZigBee)	2.4GHz
Wireless frequency (Wi-SUN)	863.1000MHz ~ 924.9450MHz

Mechanical and Housing

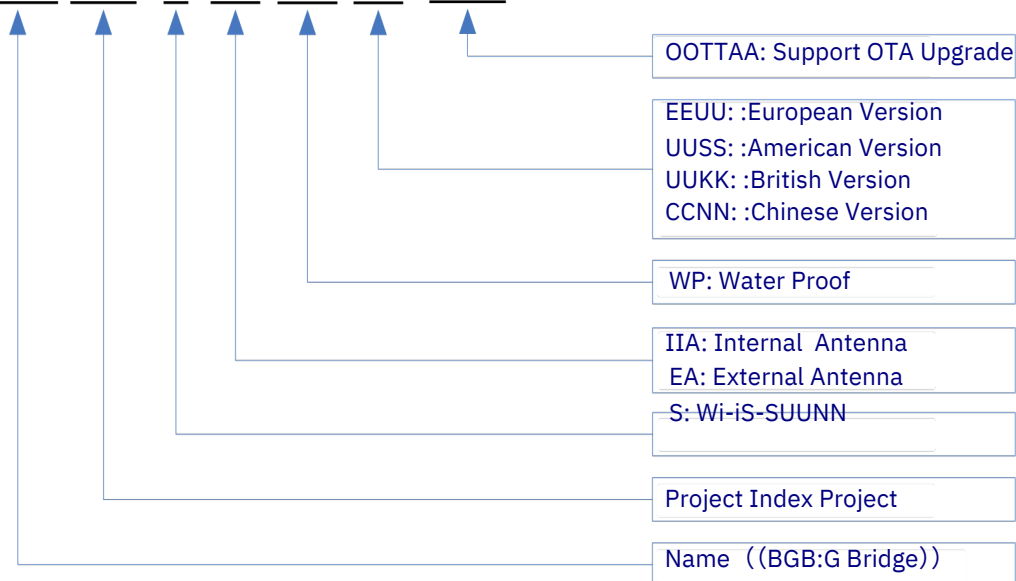
Structure Material	PC V0 White Horizontal
Fixture Color	Placement/Wall
Mounting Option	Mounting/Ceiling Mounting

Wiring		Describe
import	L Brown	Input AC 100-277V Live Wire
	N Blue	Input AC 100-277V Neutral



Part No.

TLG E08 - S- XX -WP- XX - OTA



Product Parameter

Model Number	Smart Modules	Input Voltage	Input Current	Remote Control Distance	ZigBee Communication Distance (open environment)	Wi-SUN Communication Distance (open environment)	Operating Temperature
TLGE08-S-IA-WP-EU-OTA	ZigBee + Wi-SUN	100-277Vac	0.1A Max	<2.5m	30m	<100m	-40 ~ 80°C
TLGE08-S-IA-WP-US-OTA							
TLGE08-S-IA-WP-UK-OTA							
TLGE08-S-IA-WP-CN-OTA							
TLGE08-S-EA-WP-EU-OTA						<400m	-40 ~ 80°C
TLGE08-S-EA-WP-US-OTA							
TLGE08-S-EA-WP-UK-OTA							
TLGE08-S-EA-WP-CN-OTA							

Package

Model Number	Product Net Weight (g)	Product Gross Weight (g)	Packing Size (mm)	Packaging
TLGE08-S-IA-WP-XX-OTA	130	180	143*110*80	1/PCS
TLGE08-S-EA-WP-XX-OTA	140	190	143*110*80	1/PCS

Software Operation

- After power-on, the red light flashes quickly to indicate the initialization state. You need to use the remote control to enter the super gateway MAC address.
- After setting it to the bridge, the bridge will enter the network access state (the red light flashes slowly). After successful network access, the indicator light will be on.
- After successful network access, different indicator lights will be on to represent the signal strength.
- The green light is on for the strongest signal, followed by the red and green lights. The red light is on for the weakest signal, and the bridge position needs to be changed.
- If you need to change the network, enter the new super gateway MAC address on the remote control and reset it to the bridge.

Device Reset

- Use the remote control to add the bridge to a large group, and the lamps can be reported to the software through the bridge for control.
- Add a bridge group in the software, and the lamps under multiple bridges can be uniformly controlled through the Wi-SUN panel.
- The lamp data stored in the bridge can be cleared through the remote control reset operation.
- Support remote control lock and unlock function.

Typical Working Scenarios



The “Theorylight” smart lamps are embedded with motion sensor and daylight sensor, using a “Magic Wand” remote control, users can set grouping and parameters very fast and convenient. By adopting the standard ZigBee technology, “Theorylight” has the inborn advantages like long transmission distance, multiple channels and mesh network.



Users can set the sensor parameters of one group or individual lamp with one button, and change lamp brightness. In one group, the motion sensors work together to control these grouped lamps, and the daylight sensors control the individual lamps dimming according to the ambient brightness.

The Theorylight series include panel, linear light, tri-proof light, high bay, LED tube. This kind of smart lamps can be used for industrial and commercial areas, example offices, warehouses, factories, parking and others.