



Theorylight

Gateway TLGE928

Up to support 30 Theorylight luminaires



Zigbee Mesh
Network Control



Zoning & Grouping



Theorylight
Remote Control



Dimming Control



ON/OFF



APPLICATIONS

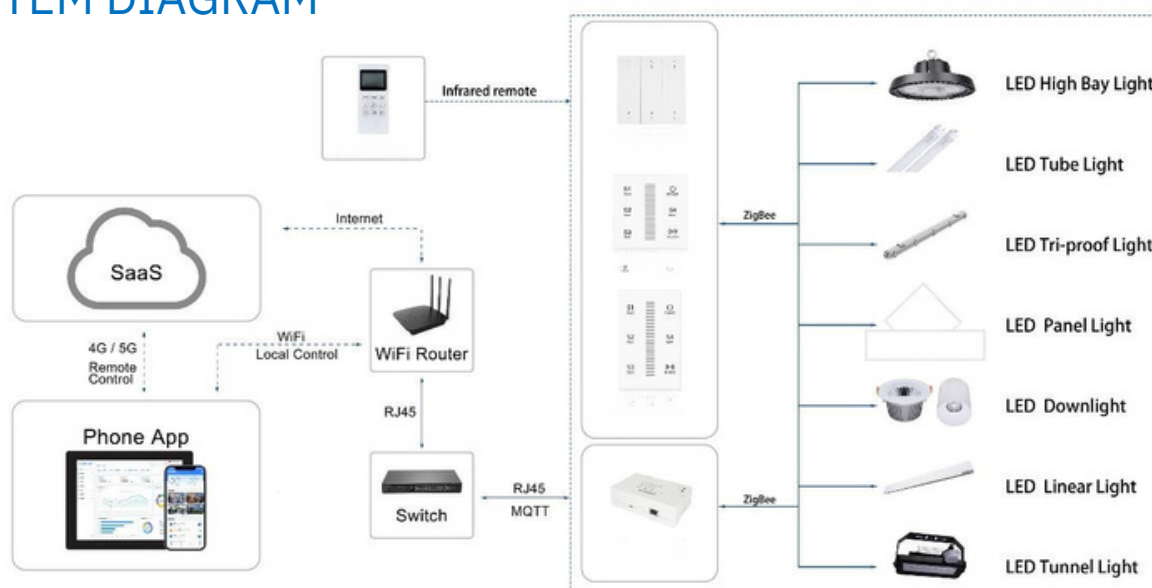
- Shopping Mall
- Office
- Warehouse
- Exhibition Hall
- Manufacture Station

FEATURES

- Embedded 100M Ethernet Controller
- ZigBee mesh network smart controls.
- Input voltage 5V, micro USB adapter
- 1 Administrator account.
- 32 scenarios are supported
- 20 devices or groups per scenario
- Supports 180 timing slices
- Each time slice supports 10 devices or groups
- Multiple gateways are supported on a LAN
- Support POE power supply (special POE version)
- Support OTA upgrade
- One gateway is recommended to support



SYSTEM DIAGRAM



PRODUCT DATA

General Information

Protection class IEC	IP20
Warranty	5 Years Warranty
Certificate	CE, RoHS

Application Conditions

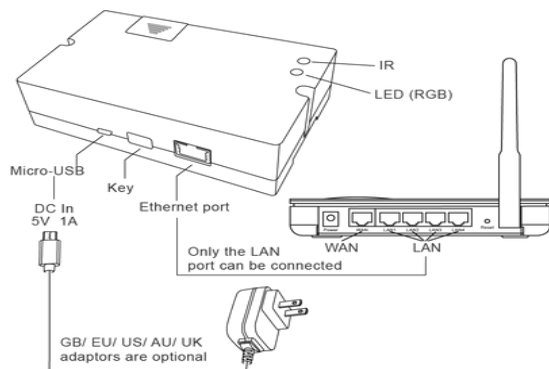
Operating Temperature	-20 °C to ~ 55 °C
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Mechanical and Housing

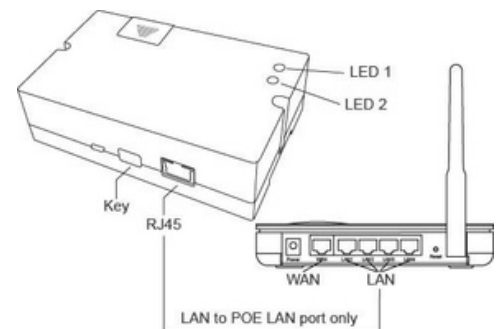
Structure Material	PC V0
Fixture Color	White

Operating and Electrical

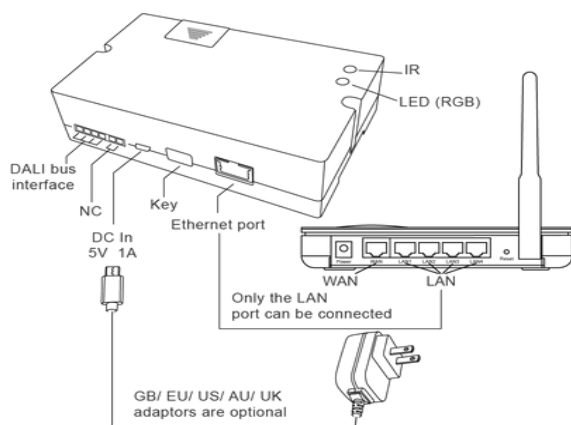
Input	DC 5V (1A MAX)
Ethernet	100M
Frequency	2.4GHz
Standby Power	<0.5W
Surge Protection	1KV 3750V
Isolation Voltage	5m IA、EA、EAC:
Infrared receiving distance	30m BEA、BEAC:
Control Distance	100m



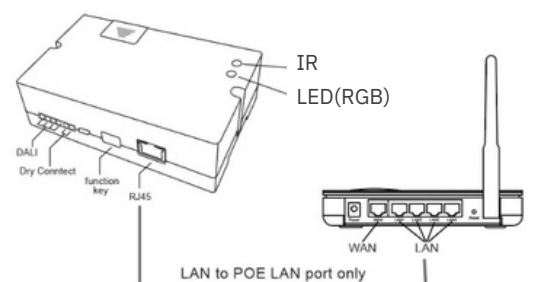
TL928-TLZ-XX-XX-OTA-3.0



TL928-TLZ-XX-XX-OTA-POE-3.0



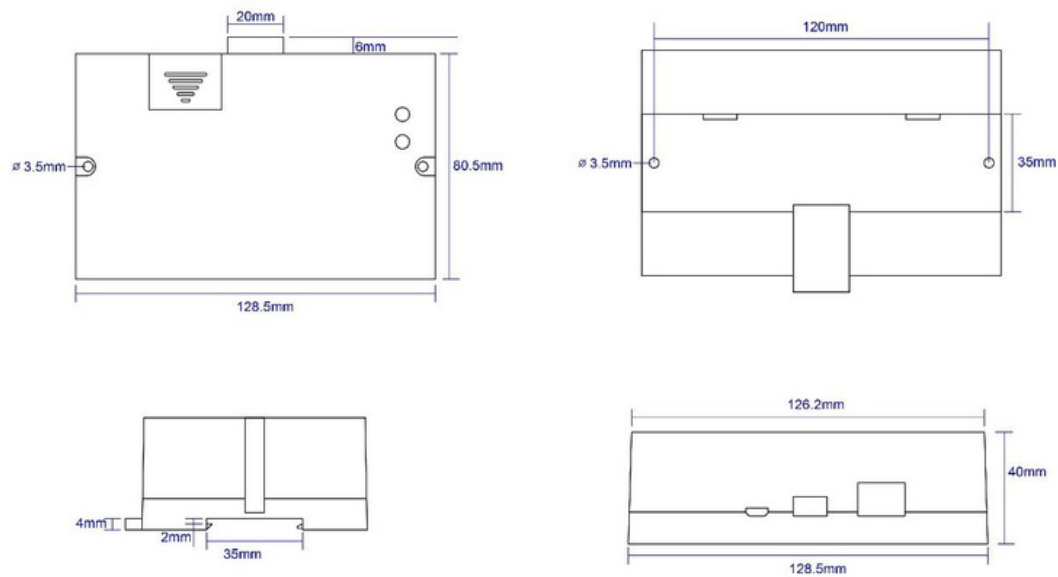
TL928-TLZD-XX-XX-OTA-3.0



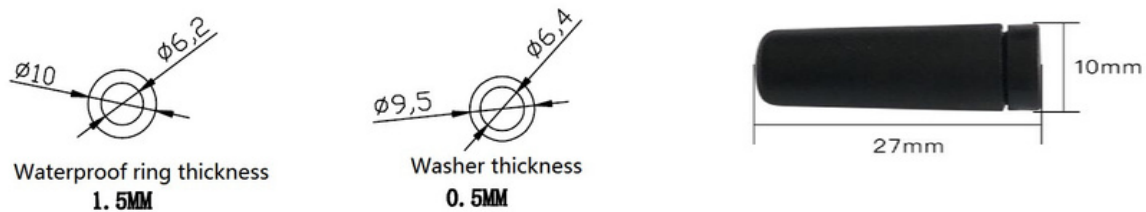
TL928-TLZD-XX-OTA-POE-3.0

Product Dimensions

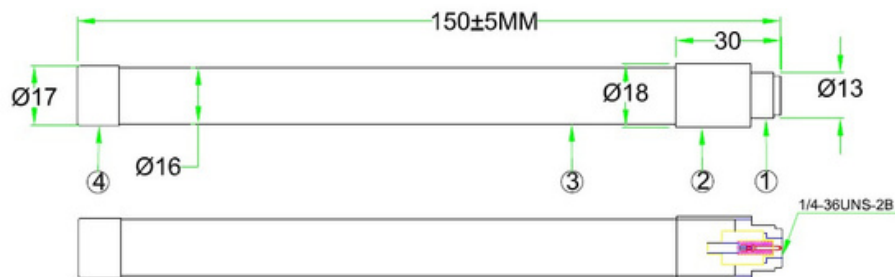
a. Housing dimensions(unit:mm)



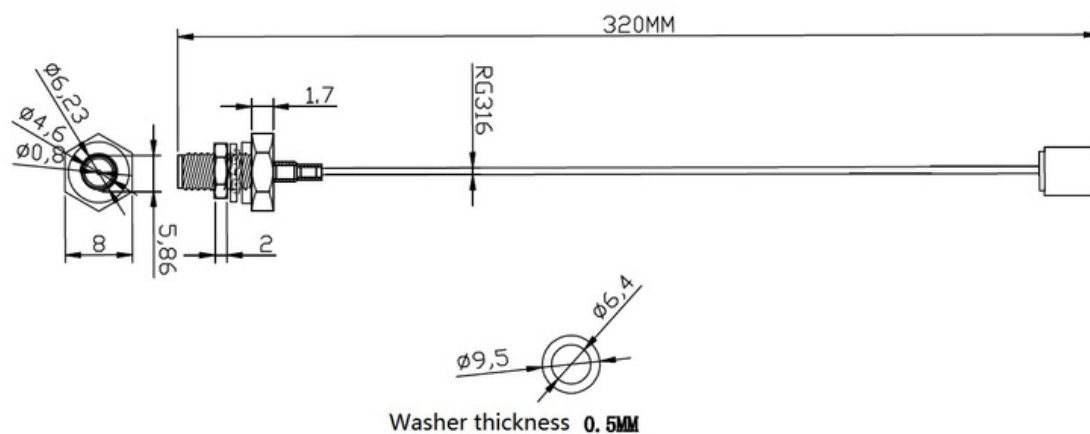
b.External antenna dimensions(unit:mm)



c. Big antenna dimensions (unit:mm)



d.External cable dimensions (unit:mm)



Button function

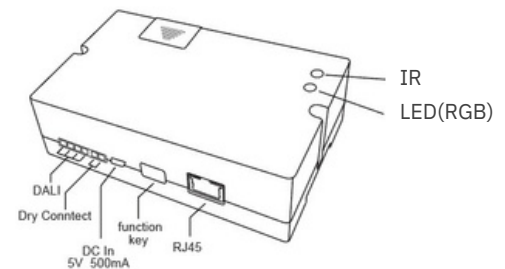
The key functions on the gateway are:

- Short Press(<3S) send the gateway information to the application software. Long Press(>10S)
- Restore the login password of this gateway to 00000000, set the gateway to DHCP mode, and clear the association between the gateway and SaaS account.

LED Indicator

The LED of gateway can do:

RED LED - Indicates that the gateway connection fails
 Green LED - Indicates that the gateway is successfully connected
 Red/Green LED Flash - Searching for ZigBee devices



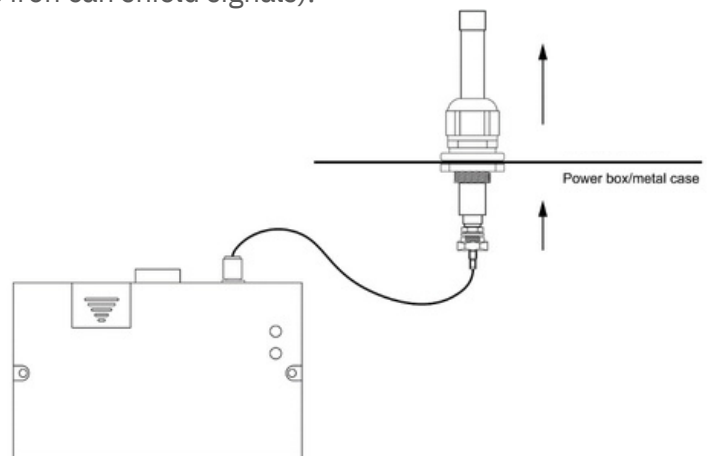
Battery

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).
- External antenna version installation guide



Software Operation

- Download the iLightsin Sync app from the APP store then install the app;
- Open the installed iLightsin Sync app after the gateway is powered on
- Register an account and log in to the gateway
- For detailed software operations, refer to the "iLightsin Sync Operation Manual.pdf"

Parameters

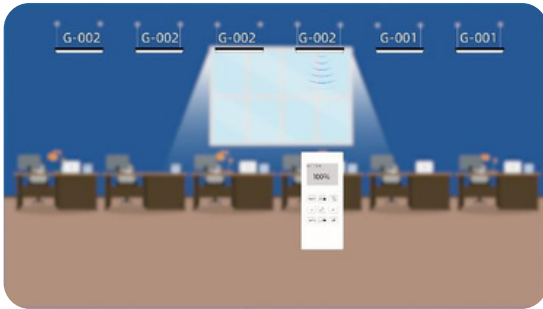
Adapter	EU(100-240Vac)	US(100-277Vac)	UK(100-240Vac)	AU(100-240Vac)	CN(100-240Vac)
Model	TL928-TLZ-IA-EU-OTA-3.0	TL928-TLZ-IA-US-OTA-3.0	TL928-TLZ-IA-UK-OTA-3.0	TL928-TLZ-IA-AU-OTA-3.0	TL928-TLZ-IA-CN-OTA-3.0
	TL928-TLZ-EA-EU-OTA-3.0	TL928-TLZ-EA-US-OTA-3.0	TL928-TLZ-EA-UK-OTA-3.0	TL928-TLZ-EA-AU-OTA-3.0	TL928-TLZ-EA-CN-OTA-3.0
	TL928-TLZ-EAC-EU-OTA-3.0	TL928-TLZ-EAC-US-OTA-3.0	TL928-TLZ-EAC-UK-OTA-3.0	TL928-TLZ-EAC-AU-OTA-3.0	TL928-TLZ-EAC-CN-OTA-3.0
	TL928-TLZ-BEA-EU-OTA-3.0	TL928-TLZ-BEA-US-OTA-3.0	TL928-TLZ-BEA-UK-OTA-3.0	TL928-TLZ-BEA-AU-OTA-3.0	TL928-TLZ-BEA-CN-OTA-3.0
	TL928-TLZ-BEAC-EU-OTA-3.0	TL928-TLZ-BEAC-US-OTA-3.0	TL928-TLZ-BEAC-UK-OTA-3.0	TL928-TLZ-BEAC-AU-OTA-3.0	TL928-TLZ-BEAC-CN-OTA-3.0
Input	DC 5V (1A MAX)				
Ethernet	100M				
Frequency	2.4GHz				
Control Distance	IA, EA, EAC: 30m				
	BEA, BEAC: 100m				
Infrared Remote Control Distance	5m				
Operating Temperature	-20°C~ 55°C				
	140g				
Weight (Only Gateway)	no external Antenna)				
Weight (Package)	273g (no external Antenna)	273g (no external Antenna)	277g (no external Antenna)	270g (no external Antenna)	273g (no external Antenna)
	Small Antenna+8g	Small Antenna+8g	Small Antenna+8g	Small Antenna+8g	Small Antenna +8g
Size	Big Antenna +57g	Big Antenna +57g	Big Antenna +57g	Big Antenna +57g	Big Antenna +57g
	External Cable: +17g	External Cable: +17g	External Cable: +17g	External Cable: +17g	External Cable: +17g
Package Size	128.5*80.5*40mm				
Pack age	189*102*66mm				
Housing Material	1PCS/package				
	PC V0				

Adapter	EU(100-240Vac)	US(100-277Vac)	UK(100-240Vac)	AU(100-240Vac)	CN(100-240Vac)
Model	TL928-TLZD-IA-EU-OTA-3.0	TL928-TLZD- IA-US-OTA-3.0	TL928-TLZD-IA-UK-OTA-3.0	TL928-TLZD-IA-AU-OTA-3.0	TL928-TLZD-IA-CN-OTA-3.0
	TL928-TLZD-EA-EU-OTA-3.0	TL928-TLZD- EA-US-OTA-3.0	TL928-TLZD-EA-UK-OTA-3.0	EA-AU-OTA-3.0	TL928-TLZD-EA-CN-OTA-3.0
	TL928-TLZD-EAC- EU-OTA-3.0	TL928-TLZD-EAC-US-OTA-3.0	EAC-UK-OTA-3.0	EAC-AU-OTA-3.0	TL928-TLZD-EAC-CN-OTA-3.0
	TL928-TLZD-BEA- EU-OTA-3.0	TL928-TLZD-BEA-US-OTA-3.0	TL928-TLZD-BEA-UK-OTA-3.0	TL928-TLZD-BEA-AU-OTA-3.0	TL928-TLZD-BEA-CN-OTA-3.0
	TL928-TLZD-BEAC-EU-OTA-3.0	TL928-TLZD-BEAC-US-OTA-	TL928-TLZD-BEAC-UK-OTA-3.0	TL928-TLZD-BEAC-AU-OTA-3.0	TL928-TLZD-BEAC-CN-OTA-3.0
Input	DC 5V (1A MAX) 3.0				
Ethernet	100M				
Frequency	2.4GHz				
Control Distance	IA、EA、EAC: 30m BEA、BEAC: 100m DALI:300m 5m				
Infrared Remote Control Distance	-20 °C ~ 55 °C 144g				
Operating Temperature	(no external				
Weight (Only Gateway)	Antenna)				
Weight (Package)	273g (no external Antenna)	273g (no external Antenna)	277g (no external Antenna)	270g (no external Antenna)	273g (no external Antenna)
	Small Antenna+8g Big Antenna +57g Cable: +17g	Small Antenna+8g Big Antenna +57g External Cable: +17g	Small Antenna+8g Big Antenna +57g External Cable: +17g	Small Antenna+8g Big Antenna +57g External Cable: +17g	Small Antenna +8g Big Antenna +57g External Cable: +17g
Size	128.5*80.5*40mm				
Package Size	189*102*66mm				
Pack age	1PCS/package				
Housing Material	PC V0				

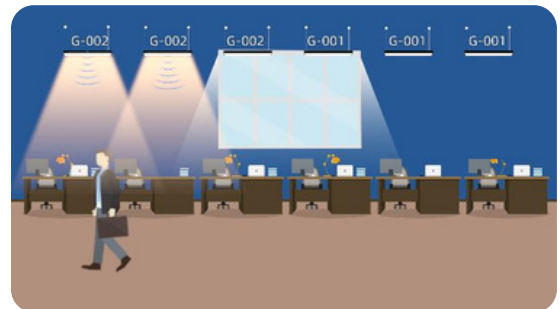
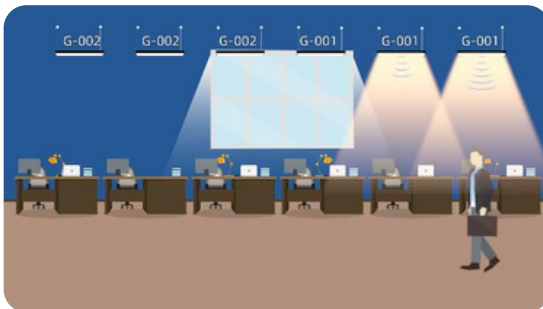
Model	TL928-TLZ- IA-OTA-POE- 3.0	TL928-TLZ- EA-OTA-POE- 3.0	TL928-TLZ- EAC-OTA-POE- 3.0	TL928-TLZ- BEA-OTA-POE- 3.0	TL928-TLZ- BEAC-OTA-POE-3.0
Input	100M				
Ethernet	2.4GHz				
Frequency	IA、EA、 EAC：30m				
Control Distance	BEA 、 BEAC：				
Infrared Remote Control Distance	100m 5m				
Operating Temperature	-20℃~ 55℃				
Weight(Only Gateway)	168g (no external Antenna)				
Weight (Pack age)	258g (no external Antenna)				
Size	Small Antenna+8g Big Antenna +57g External Cable: +17g				
Package Size	128.5*80*38mm				
Pack age	189*102*66mm				
	1PCS/package				
Housing Material	PC V0				

Model	TL928- TLZD-IA-OTA-POE-3.0	TL928- TLZD- EA- OTA-POE-3.0	TL928- TLZD- EAC- OTA-POE-3.0	TL928- TLZD- BEA- OTA-POE-3.0	TL928- TLZD- BEAC- OTA-POE-3.0
Input	100M				
Ethernet	2.4GHz				
Frequency	IA、EA、 EAC： 30m				
Control Distance	BEA、 BEAC： 100m				
	DALI Bus within 300m				
Infrared Remote Control Distance	5m				
Operating Temperature	-20 ℃ ~ 55 ℃ 172g (no				
Weight (Only Gateway)	external Antenna)				
Weight (Pack age)	262g (no external Antenna				
Size	Small Antenna+8g Big Antenna +57g External Cable: +17g				
Package Size	128.5*80*38mm				
Pack age	189*102*66mm				
	1PCS/package				
Housing Material	PC V0				

Typical Working Scenarios



The “Theorylight” smart lamps of HOMA are embedded with motion sensor and daylight sensor, using a “Theorylight” 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 on/off according to the ambient brightness.

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