



SMART
LIGHTING
DIRECT

Wireless Smart Lighting Controller

HTT-SLC-ZIG57U

Datasheet



Smart Lighting Direct
Green Solutions

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PRELIMINARY

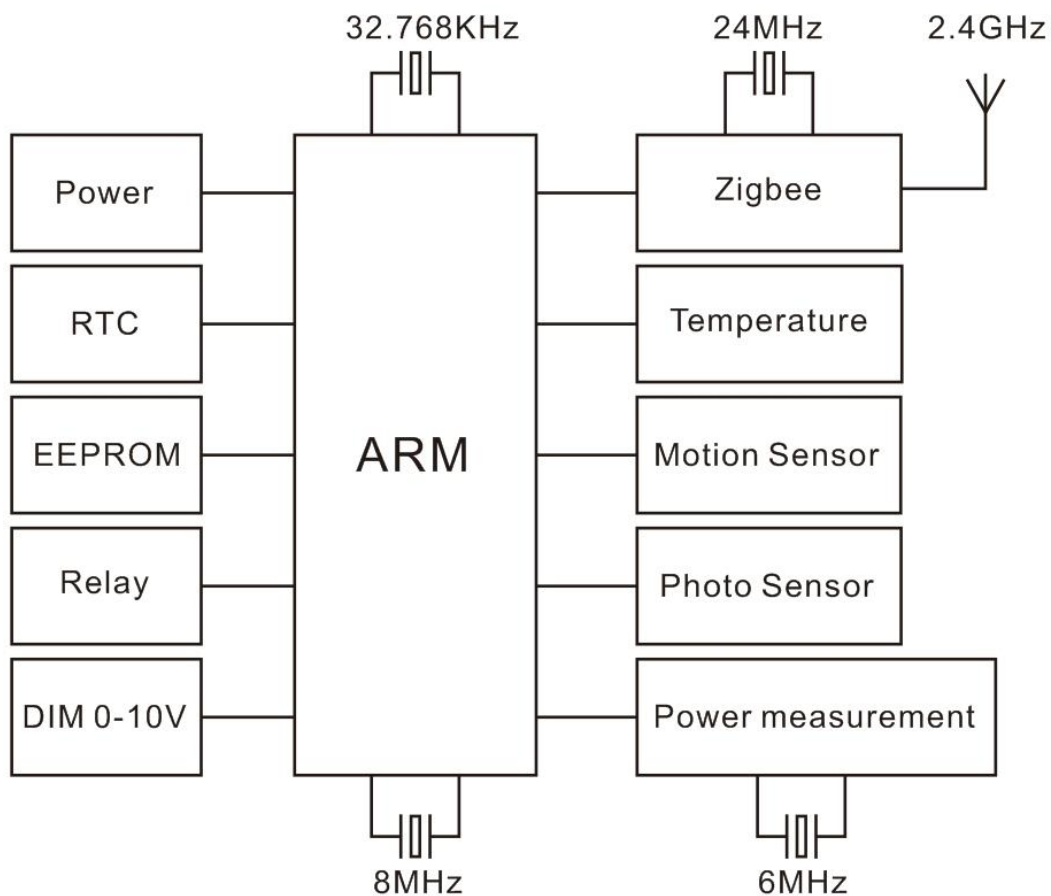
1. Overview

HTT-SLC-ZIG Wireless Smart Lighting Controllers (WSLC) are designed for roadway and area lighting applications.

WSLC complies with ZigBee/IEEE 802.15.4 standards and ZigBee PRO protocol, has advantages such as self-healing and self-organizing mesh networking, optimized network traffic, reduced power consumption, long communication distance, strong anti-interference capability, more flexibility, and etc.

WSLC adopts ANSI C136.41 standard plug with dimming function. It through the wireless way to control the load power supply on/off, dimming, and query various electrical parameters, product adopts OQPSK modulation mode, use 2 dbi omni antenna, Radio frequency of 2.4 GHz, power range for -9 dBm to +12 dBm.

2. Block



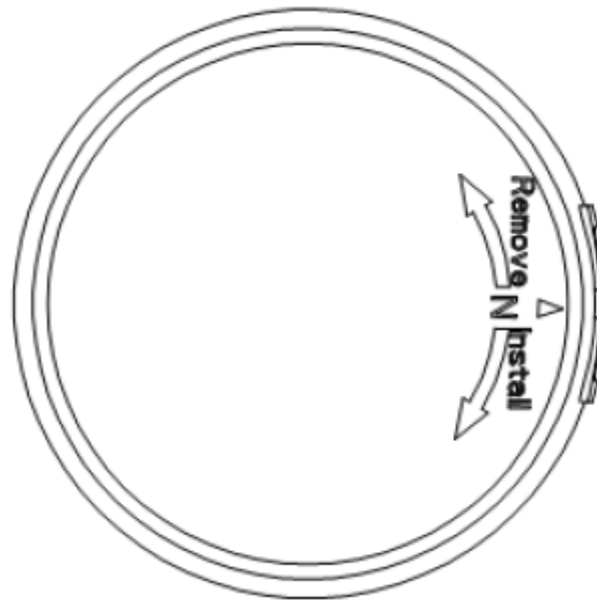
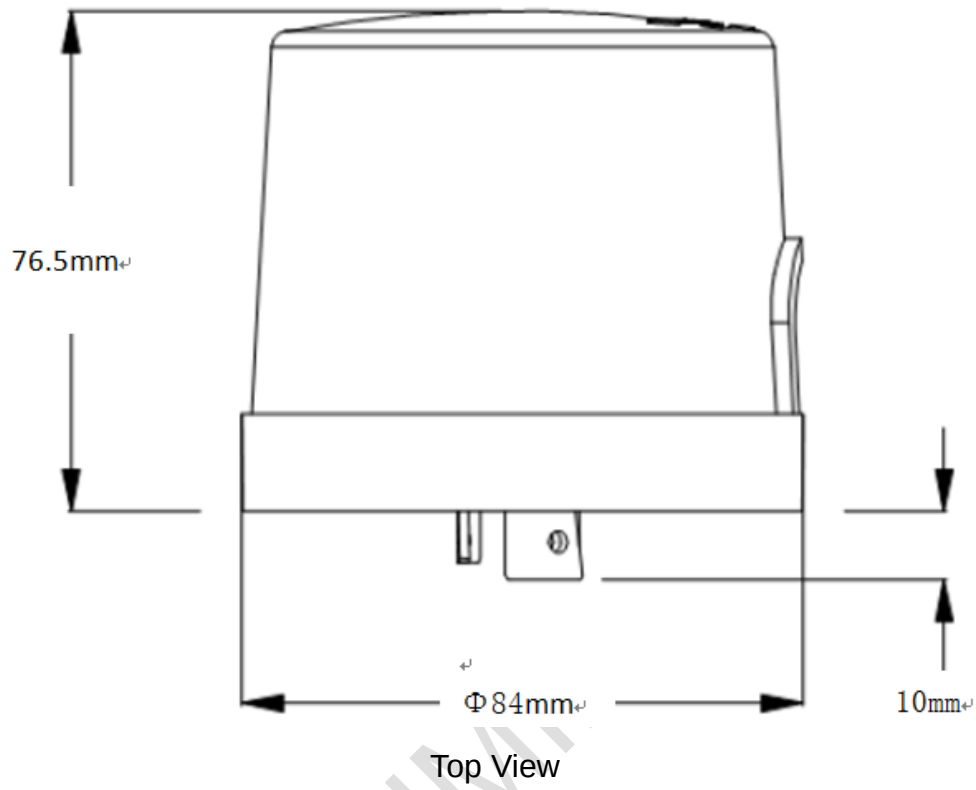
3. Technical Parameters

Item	Parameters
Part Number	HTT-SLC-ZIG57U
Power	
Input Voltage	100 ~ 240VAC 50/60Hz
Output Voltage	100 ~ 240VAC 50/60Hz
Output Current	5A (Resistive loads)
ZigBee	
Radio Frequency	2405 – 2480MHz
Number of Channels	16
Max Data Rate	250kbps
Transmit Power	-9dBm ~ +12dBm
Receive Sensitivity	-104dBm
No Obstacle Comm. Distance	2000m
Modulate Types	OQPSK
Antenna Types	Omnidirectional
Antenna Gain	2dbi
Antenna Impedance	50 Ω
Measurement Range	
Voltage	100 ~ 240VAC
Current	0 ~ 5A
Operation Duration	0 ~ 2 ³² seconds
Energy	0 ~ 2 ³² Wh
Temperature	-55°C ~ +125°C
Ambient Light Sensing (Optional)	0 ~ 1000 lux
Features	
Dimming Output	0 ~ 10V

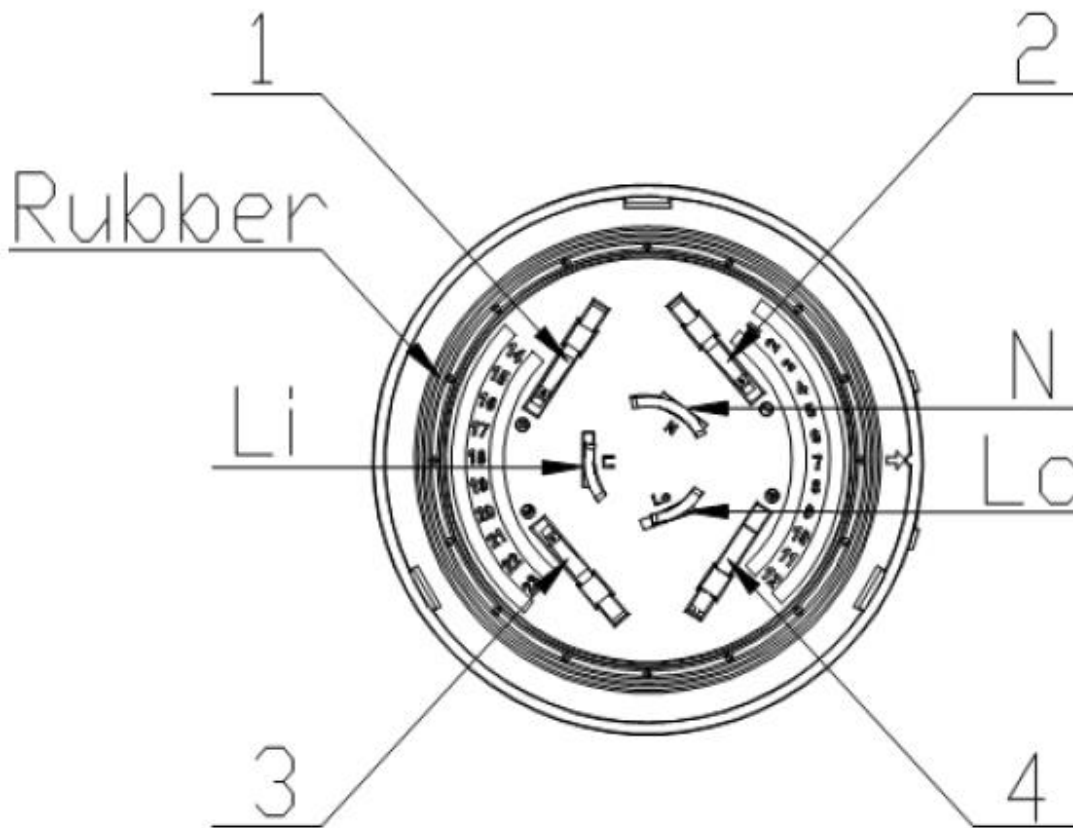
Brightness Adjustment	ON(5 ~ 100%) / OFF
Dimming Gradient	1%
Photo Sensor (Optional) Response Range	390 ~ 700nm
Motion Detection Port	Dry Contact (Short circuit and effective)
Others	
Operation Temperature	-25°C ~ +70°C
Storage Temperature	-25°C ~ +70°C
IP Rating	IP65
Dimensions	Φ84 x 76.5mm

PRELIMINARY

4. Dimension



5. Interfaces



Pin Description:

Li: Line In

Lo: Line Out

N: Neutral

1: 0-10V Dimming Output +

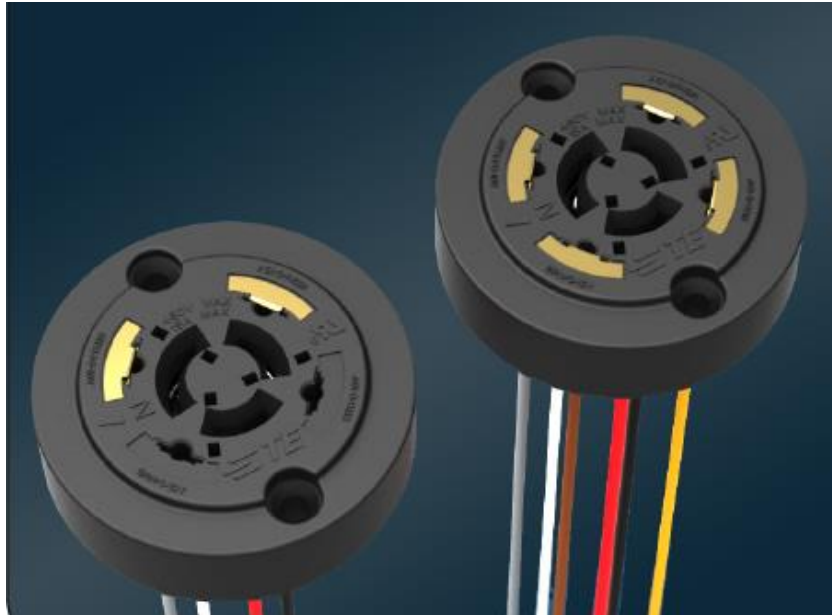
2: 0-10V Dimming Output -

3: Motion Detection Port 1

4: Motion Detection Port 2

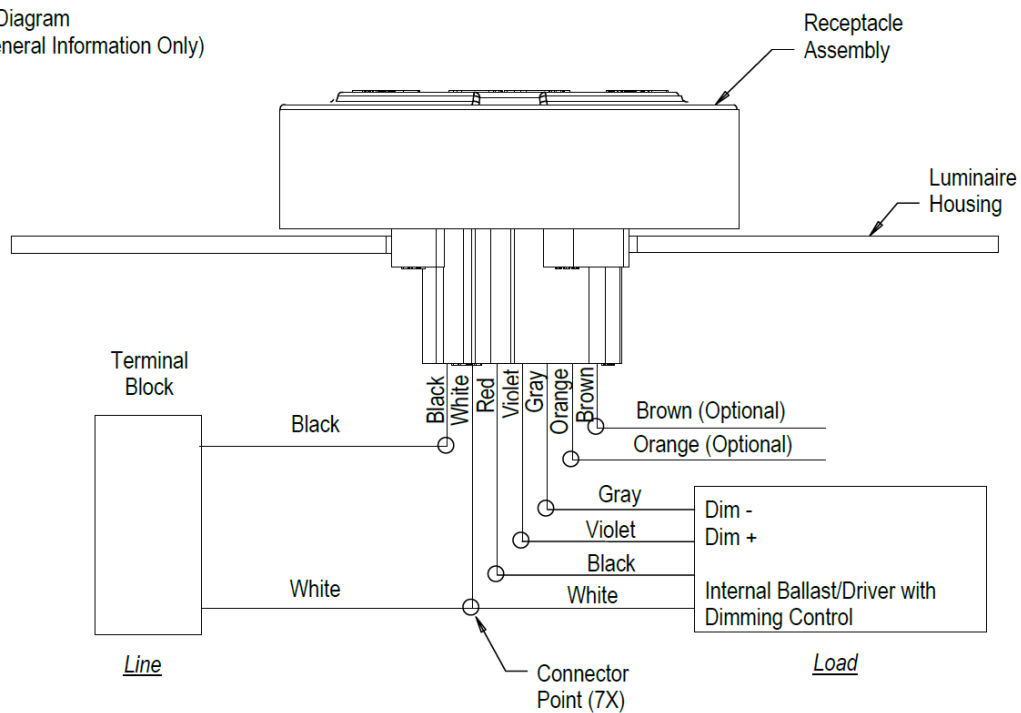
6. Base

Provided upon request

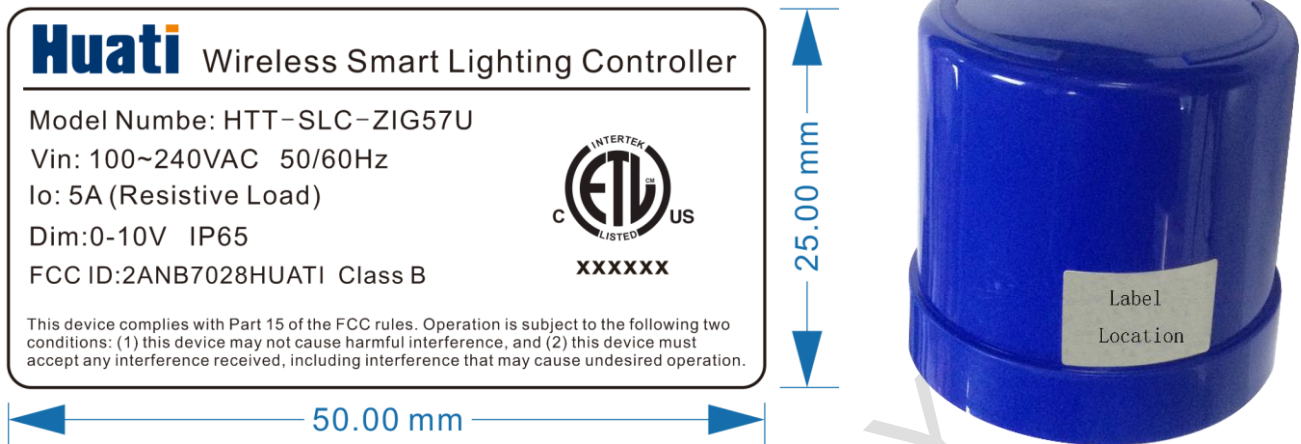


7. Wiring Diagram

Wiring Diagram
(For General Information Only)



8. Label & Location



9. Caution

This device complies with Part 15 of the FCC. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

MPE Reminding

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended.

PRELIMINARY