



# Manual

for

## Zigbee Lighting Dimmer

V1.0

<b>Model Name</b>	<b>UCLZD100P0S</b>
<b>P / N</b>	
<b>USER P / N</b>	
<b>TYPE</b>	
<b>Description</b>	
<b>Specification No</b>	

<b>Issued</b>	<b>Mechanical checking</b>	<b>Electrical checking</b>	<b>Approved</b>

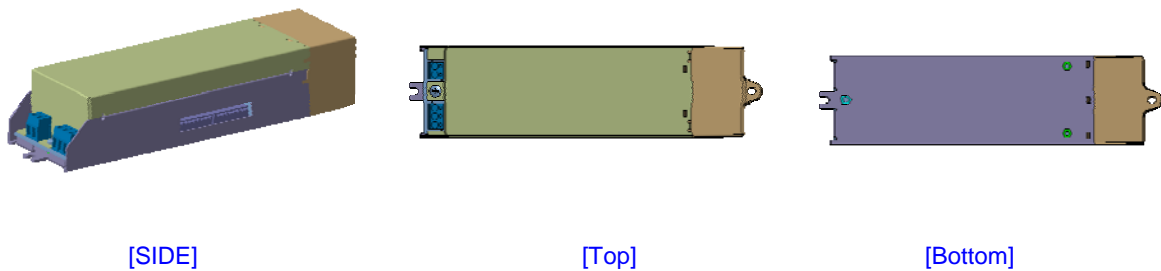
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## 1 Document Revision

Rev. No	Issued date & Descriptions	Date	Issued by	Checked by
Ver 1.0	Initially released	2010-01-21	Sung-Jin, Kim	

## 2 ZLD Pictures



[SIDE]

[Top]

[Bottom]

## 3 Features

TYPE		2.4GHz / IEEE 802.15.4 / ZIGBEE	
CHIP		ICPZBS240,ATMEGA88	
AC INPUT		AC 110V -240V 50/60Hz	
OUTPUT	0 – 10V	0 V to 10V 2CH	
	TRIAC	Phase	1CH 2A
	Control		
DIP SWITCH		PAN ID, Channel, MAC Address setting	
COMUNICATHION		UART, ZIGBEE WIRELESS COMUNICATION	
Current		TRIAC= MAX:2A , 0TO10 =MAX:13mA	

## 4 Components

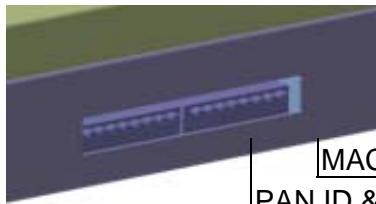
Case Upper	Metal (1ea)	Outer case
Case Bottom	Metal (1ea)	Outer case
Antenna Cover	Plastic(1ea)	Outer case
Insulator	Plastic(1ea)	Inner Insulation
Screw	FH 3X6L (3ea)	Fastened PCB & Case

## 5 Mechanical Specifications

### 5.1 General

Size	203.25(W) x 52.6(H) x 38.6(D)mm
Weight	180g
Switch	KSD-82HS / 8CH x 2(16CH) / SMD TYPE
Connector	2Pin AC ,3Pin AC,4pin 0to10
Enclosure	Metal, ABS

### 5.2 Switch Configuration



MAC Address Setting  
PAN ID & Channel Setting

### 5.3 Use Condition

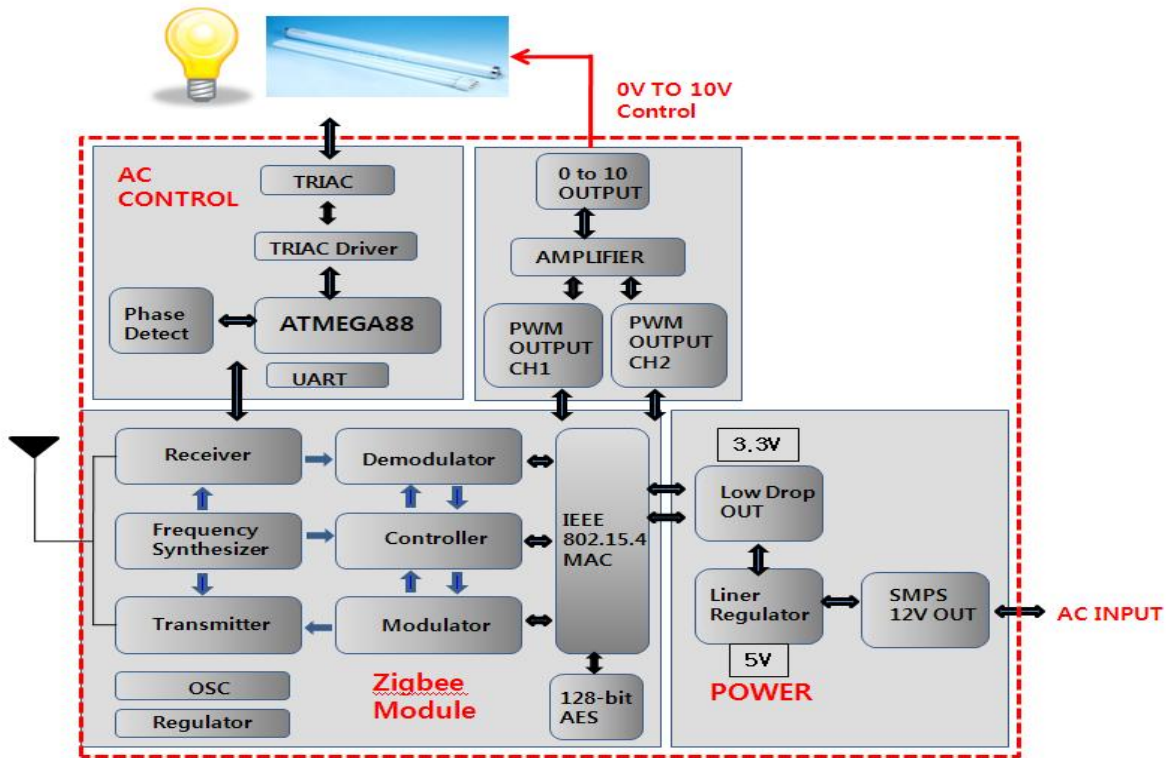
Working Temperature	-20 ~ 55℃
Storage Temperature	-25~80℃
Humidity	Below 90%

## 6 RF Specifications

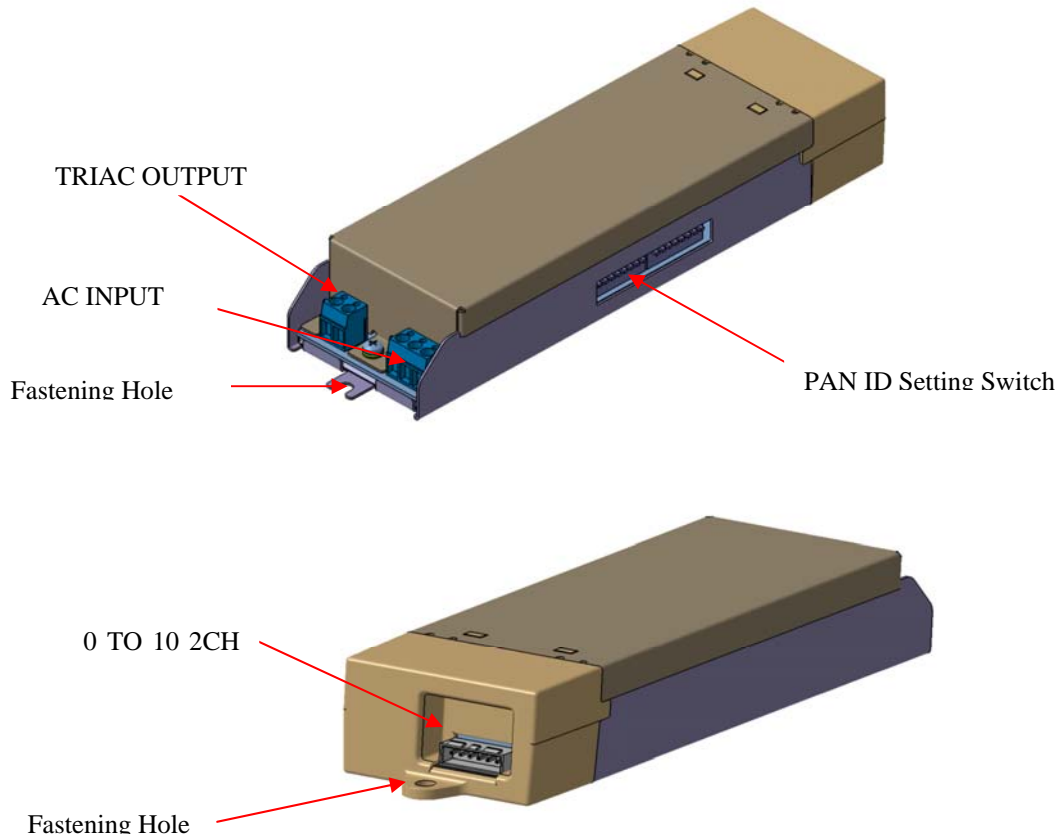
### General Performance Section

Performance	Indoor/Urban Range	Up to 30 m
	Outdoor RF Line of sight Range	Up to 100 m
	Transmit Power Output	10 mW (0dBm)
	RF Data Rate	250,000 bps
	Receiver Sensitivity	-98 dBm (1% PER)
General	Frequency	2.4GHz
	Antenna Options	Chip Ant.
	Point-Point, Point-Multipoint, Peer-Peer, Mesh	
		Channel / PAN ID / Source Address
	Filtration Option	Channal / PAN ID / Source Address

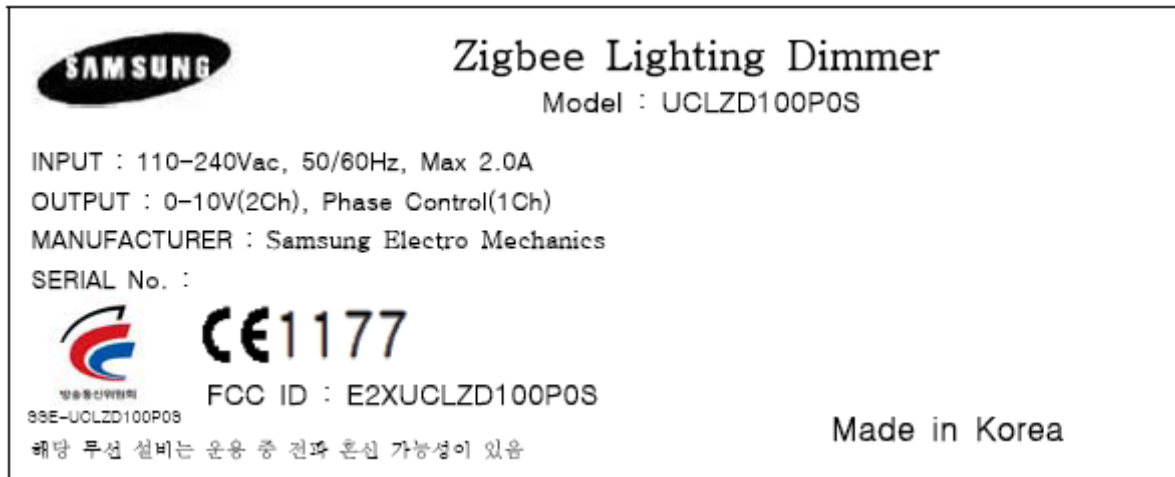
## 7 ZLD Black Diagram



## 8 ZLD Configuration



## 9 Product Label



### FCC Information to User

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 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.

### Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC Compliance Information** : This device complies with Part 15 of the FCC Rules. 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

### IMPORTANT NOTE:

#### FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## **IMPORTANT Safety Instruction: CAUTION**

To reduce the risk of electric shock, do not remove the top cover (or the rear section).  
No user serviceable parts inside, refer servicing to qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure-voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to the important operating and maintenance instructions in the accompanying literature. Please read the manual.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this equipment near water.
- 6) Do not using near any heat sources such as radiators, heat resisters, stove, or other equipment that produce heat.

**CAUTION  
RISK OF EXPLOSION IF BATTERY IS REPLACED  
BY AN INCORRECT TYPE.  
DISPOSE OF USED BATTERIES ACCORDING  
TO THE INSTRUCTIONS**