

Pro wireless lighting control system

# ZigBee HA1.2 13W CCT/ SC Dimming Driver



## Product Description

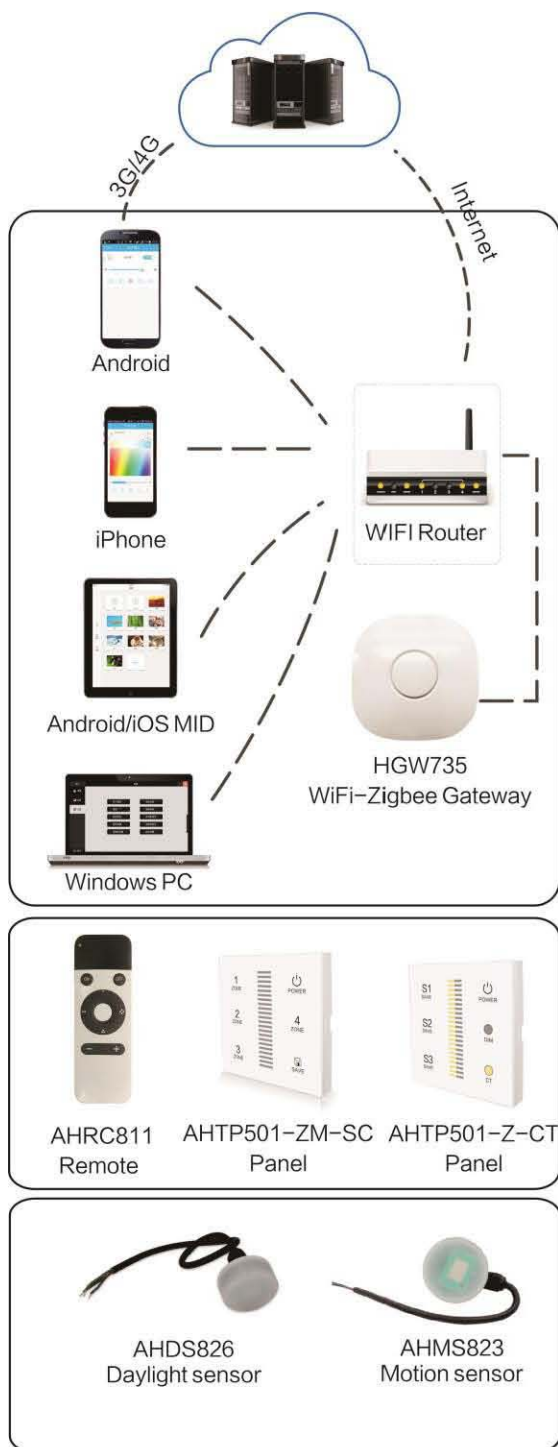
AHLD812-Z is a kind of ZigBee HA standard dimming driver for single color dimmable and CCT adjustable lights. With OTA function, this ZigBee driver is mainly applied in home, office, commercial and industrial lighting projects for smart control purposes.

It works with ZigBee lighting control system to achieve long-distance controlling led lights by Mobile Phone, Tablet, PC, Touch Switch, Remote Control and Daylight Sensor.

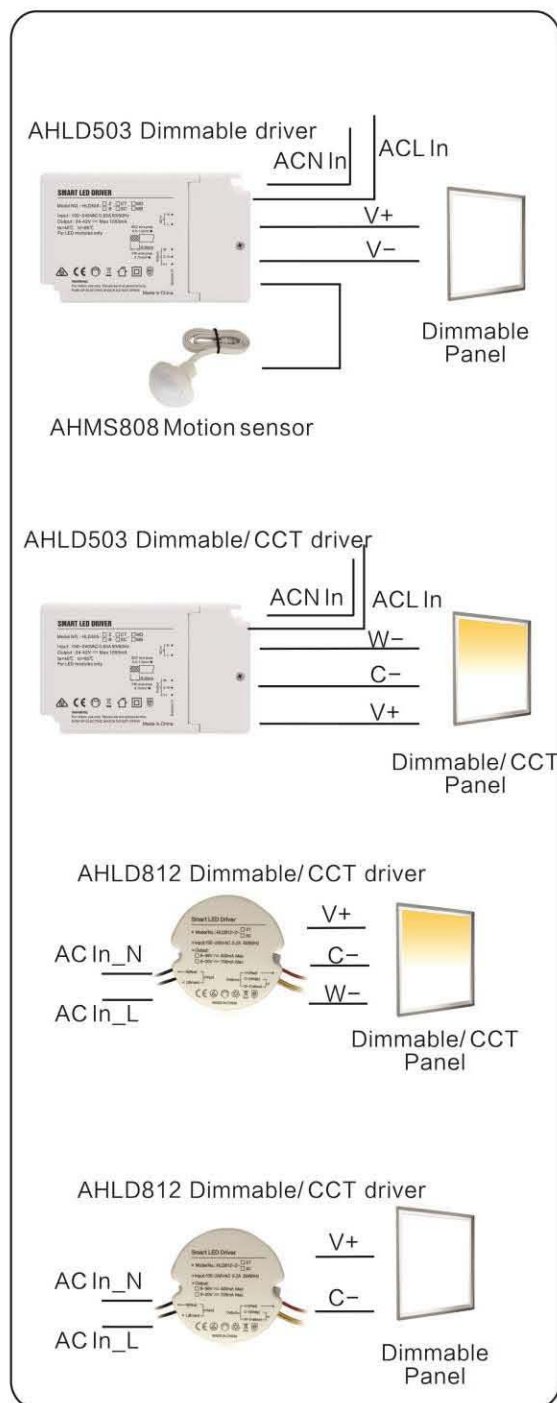


AHLD812-Z-XX-BS-XX-IA-OTA-PRO

## System Diagram



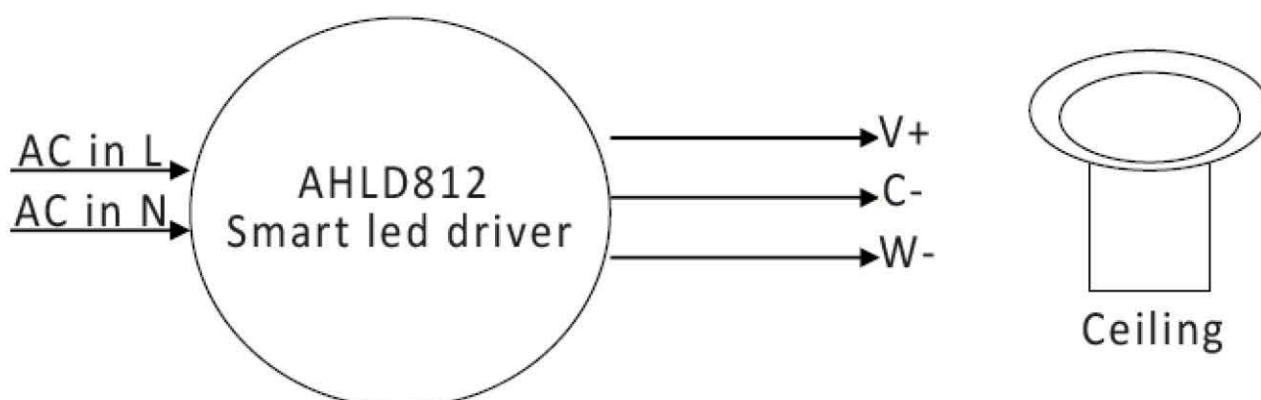
Control



Lights

## Wiring Diagram

**Caution: Please cut off the main power while installing!**



## Interface definition

Terminal		Describe
AC Input	L (Brown 22# , length 150 mm)	AC 200V-240V
	N (Blue 22# , length 150 mm)	
LED DC Output	V+ (Red 22# , length 150 mm)	LED Driver, (Common Anode)
	C- (White 22#, length 150 mm)	
	W- (Yellow 22#, length 150 mm)	

## Output Current and Voltage

Two types of output voltage and current setting for this driver, see parameter in table 1 and 2

Table1. Defaulted current setting for output voltage 18-36V

Type	Output voltage ( $\pm 5\%$ )	Current voltage MAX	Note
W	350mA	36VDC	Output For CCT Version
C	350mA	36VDC	Output For SC Version and CCT Version

Table2. Defaulted current setting for output voltage 9-20V

Type	Output voltage ( $\pm 5\%$ )	Current voltage MAX	Note
W	550mA	20VDC	Output For CCT Version
C	550mA	20VDC	Output For SC Version and CCT Version

**Caution! Max power for this Zigbee driver AHLD812-Z-PRO is 13W, defaulted current can be set according to the lamp, but total current for the 2 channels should be no more than 13W.**

## Software Operation

1. Initial states. Lights will flick for 4 times and then keep on when first AC power on the Zigbee drivers.
2. First 30 minutes. Zigbee drivers will be searched by the ZigBee gateway in the first 30 minutes when they are in initial states.
3. Choose gateway. AC power on ZigBee gateways, open the App iLightsIn Pro, choose the gateway you would like to operate and login.
4. Scan devices. Click "scan device" and the gateway will start to search the Zigbee drivers in initial states.
5. Add device. Zigbee drivers will be added to the App automatically.
6. More operating details find in "HGW735 User Manual".

## Initial States **Setting** (by either 1 or 2)

1. Delete the Zigbee driver on the “Pro” App with it AC power on.
2. AC power off the ZigBee driver within 3 seconds when it is AC power on. And, AC power on again after 3 seconds. Repeat for 4 times.
3. Lights will flick 4 times and then keep on if reset successfully.
4. Data will be cleaned up if reset successfully.

## Environmental and Electrical **Parameters**

Parameters	AHLD812-Z-SC-BS-1C-IA-OTA-PRO	AHLD812-Z-CT-BS-2C-IA-OTA-PRO
Input power	200-240VAC	200-240VAC
Channels	1 Channels	2 Channel
Output current	350mA MAX(18-36V version) 550mA MAX(9-20V version)	350mA MAX(18-36V version) 550mA MAX(9-20V version)
Output DC	18-36V (43VDC MAX at No Load) 9-20V (26VDC MAX at No Load)	18-36V (43VDC MAX at No Load) 9-20V (26VDC MAX at No Load)
PF	> 0.75 (MAX Load)	> 0.75 (MAX Load)
Efficiency	Max 85%	Max 85%
Wireless frequency	2.4GHz	2.4GHz
Operation temperature	-20°C to 55°C	-20°C to 55°C
No land power	<0.5W	<0.5W

**Size:** 65x25mm

**Weight:** 65g

**Package:** 1pc/ package