

PAD06

Zigbee Smart Dimmer Socket



Warning: Do not use Non-Dimmable LED lamps.

PAD06 is an E27(EU)/ E26(US) Edison screw based lamp socket, based on Zigbee technology, which provides electrical connection to the E14(EU)/ E12(US) Edison screw based lamps and support it in the lighting fixture. The use of socket allows lamps to be safely and conveniently replaced. You can On/Off the light by pressing the button briefly, or a long pressing to control the brightness of dimmable light bulb.

Join/Leave Network

* Join Network without user action

Power on the device, it will enter the find and join network mode.

* **Join network with user action**

1. Making the zigbee network in the permitting joining mode.
2. Pressed the button of PAD06 three times in two seconds. the PAD06 will scan and try joining the network.

* **Reset to factory default / Leave network**

1. Pressed the button three times in two seconds, and do not release the button in the 4th pressed without 5 seconds.
2. The device will leave the network, and LED will turn on.

User Interface

* **Button Function**

1. Relay Control

When pressed and released button, the PAD06 will control the relay in toggling way.

For example, if you press the button then release and the relay is off, the device will turn the relay on.

See the LED function for more information.

2. Dimmer Control

When long pressing button, the PAD06 will control the brightness of dimmable light bulb.

3. Join network

When pressed and released button three in 2 seconds, the PAD06 will do finding and joining network.

4. Reset to default / Leave network

Pressed the button three times in two seconds, and do not release the button in the 4th pressed without 5 seconds, the PAD06 will do reset to default.

* LED Function

1. Relay Status

If the relay is on, the device will turn the LED on.

If the relay is off, the device will turn the LED off.

2. Reset to default / Leave network

When PAD06 reset to default / leave network the relay will turn on.

3. Try joining network

Power on the device, if PAD06 doesn't join network, the device will auto start the try joining network mode. The LED will light on one second.

Programming

* Zigbee Cluster Library Description

The PAD06 support Profile Home Automation v1.2 (profile is 0x0104).

The device is hosted in endpoint 1 (0x01).

* Supported Clusters List

Cluster ID	Cluster Name
0x0000	Basic
0x0004	Group
0x0005	Scenes
0x0006	ON/OFF
0x0008	Level Control

* Basic Cluster (Cluster ID :0x0000)

Attribute ID	Attribute Name	Attribute Type	Default Value
0x0500	Model identifier	CHAR	

*** Group Cluster (Cluster ID :0x0004)**

Request

groupId : 0xABCD (by user)
groupName : 0x00 (by user)

*** Scenes Cluster (Cluster ID :0x0005)**

Request

sceneId : 0x01 (by user)
extensionFieldSets : cluster id, length, value
cluster id : scenes to do cluster id.
length : value length.

*** ON/OFF Cluster (Cluster ID :0x0006)**

1. Read Relay Status

Request

Attribute ID : 0x0000

Response

Attribute Data : 0x00(OFF), 0x01(ON)

2. Control Relay

Attribute Data : 0x00(OFF), 0x01(ON)

*** Level Control Cluster (Cluster ID :0x0008)**

1. Read Current Level

Request

Attribute ID : 0x0000

Response

Attribute Data : 0x00(1 byte for current level)

2. Level Control

command id : 0x00
level : 0x00 (by user)
transition time : 0x0000 (by user)

3. Level Control Move Mode

command id : 0x01
movemode : 0x01 (turn on) , 0x00 (turn off)
rate : 0x0A

4. Level Control Step

command id : 0x02
stepmode : 0x00 (turn on one step) , 0x01 (turn off one step)
setpsize : 0x0A (by user)
transition time : 0x0000 (by user)

5. Level Control Stop

command id : 0x03

6. Level Control With ON/OFF

command id : 0x04

level : 0x00 (by user)

transition time : 0x0000 (by user)

7. Level Control Move Mode With ON/OFF

command id : 0x05

movemode : 0x01 (turn on) , 0x00 (turn off)

rate : 0x0A

8. Level Control Step With ON/OFF

command id : 0x06

stepmode : 0x00 (turn on one step) , 0x01 (turn off one step)

setpsize : 0x0A (by user)

transition time : 0x0000 (by user)

9. Level Control Stop With ON/OFF

command id : 0x07

Note: In level control cluster, all with on/off command can control PAD06 without relay on/off, but the others command only control when relay on.

Over The Air (OTA) Firmware Update

The device support the Zigbee firmware update via OTA.

Before starting the procedure, please remove the front cover of the device. Otherwise the hardware check will be failed.

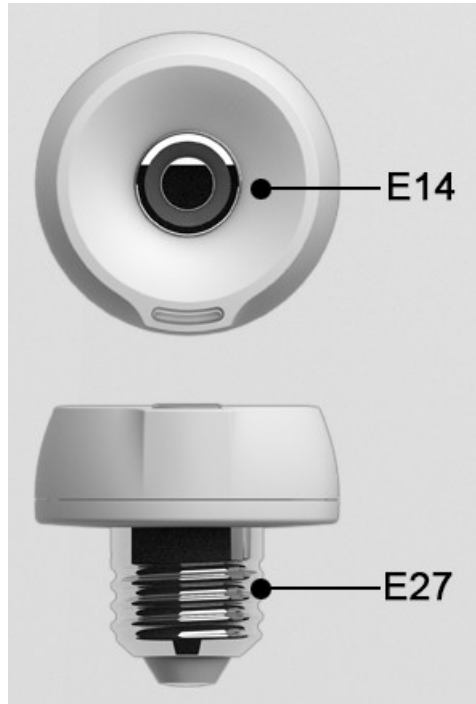
Choosing a Suitable Location

1. Do not locate the dimmer facing direct sunlight, humid or dusty place.
2. The suitable ambient temperature for the Switch is 0°C~40°C.
3. Do not locate the dimmer where exists combustible substances or any source of heat, e.g. fires, radiators, boiler etc.
4. After putting it into use, the body of dimmer will become a little bit hot of which phenomenon is normal.

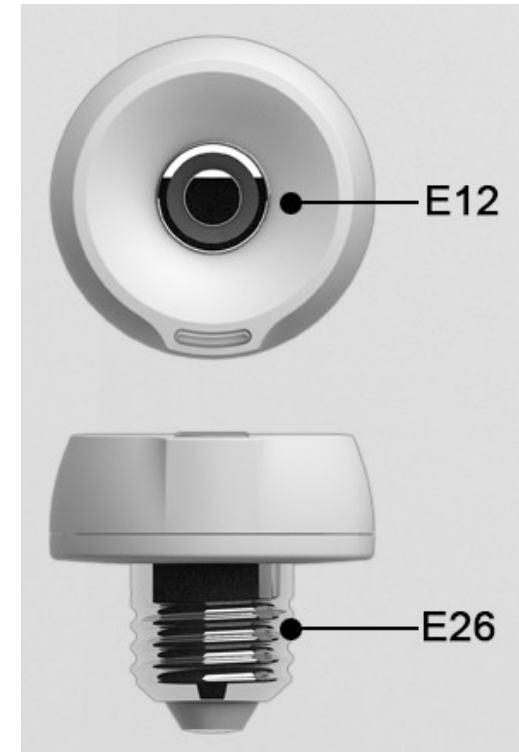
screw lamp holder Type:

Since the socket type for each country in Europe varies, refer to the outline for each socket suited for each country as follows:

EU TYPE: PAD06-1



US TYPE: PAD06-2



Note: Please make sure that the intensity of the screw lampholder of the electrical device must be Maximum Load (Ampere) and have same head as the enclosed screw lampholder before inserting to the socket.

Troubleshooting

Symptom	Cause of Failure	Recommendation
The Switch not working and LED off	1. The Switch is not plugged into the electrical outlet properly 2. The Switch break down	1. Check power connections 2. Don't open up the Switch and send it for repair.
The Switch LED illuminating, but cannot control the ON/OFF Switch of the load attached	1. Check if the load plugged into the Switch has its own ON/OFF switch 2. The switch is protected	1. Set the ON/OFF switch of the load attached to ON 2. Unprotected the switch or follow the instruction of protection.
The Switch LED illuminating, but the Detector cannot control the Switch	1. Not carry out association 2. Same frequency interference	1. Carry out association 2. Wait for a while to re-try

Specification

Operating Voltage:	100V~240V / 50Hz~60Hz
Maximum Load (watts):	40W (Incandescent bulbs); (PAD06-1; PAD06-2)
Maximum Load (watts):	13W (Dimmable LED bulbs); (PAD06-1; PAD06-2)
Screw lamp holder Type:	EU type: E27 to E14; PAD06-1
	US type: E26 to E12; PAD06-2
Operating Temperature:	0°C ~ 40°C
Frequency Range:	2405MHz~2475MHz(EU)(US/Canada)(TW/JP)
RF Radiated Power:	+1dBm
Transmission Range:	Minimum 40 m in door 100m outdoor line of sight
Modulation Type:	O-QPSK - Offset - Quadrature Phase Shift Keying

** Specifications are subject to change and improvement without notice.

FCC ID : RHHPAD06



Warning: Do not use Non-Dimmable LED lamps.

Warning:

- 1.Plug out to disconnect from power supply; Do not plug in line.
- 2. Do not exceed the max rating.
- 3. Do not use Non-Dimmable LED lamps.

Disposal

	This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.
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Company of License Holder : Philio Technology Corporation
Address of License Holder : 8F., No.653-2, Zhongzheng Rd., Xinzhuang Dist., New Taipei City 24257, Taiwan(R.O.C)

FCC Interference Statement

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.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC RF Exposure Information (SAR)

- 1. To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.
- 2. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.