

ZBMINI-L Operation Description

SONOFF Zigbee 3.0 Smart Switch (No Neutral Required) allows you to remote control, schedule on/off and set smart scenes to trigger other devices, etc. by connecting Zigbee hub.

The product work is briefly described as follows

1. First, the AC / DC circuit converts the input AC power supply to 5V DC power and outputs it to the relay control unit. The 5V DC power supply is converted to 3.3V through the LDO chip ME6210A33PG to provide power to the main control chip CC2652P

2. MCU cell

MCU chip CC2652P chip integrates LED display, button and wireless functions. The clock working frequency is 48Mhz. The zigbee wireless signal sends 2.4G wireless signal through the onboard PCB antenna and connects to the zigbee gateway to realize the data transmission function

3. Switch control unit

Switch on-off control by the main control chip CC2562P issued a command to the relay drive circuit, high level switch closed and low level switch disconnected

4. Product wireless parameters

Technical Document	Details
Zigbee Modulation Technique:	2.400MHz~2.4835MHz
Zigbee Modulation Type:	DSSS OQPSK
Hardware version	V1.4
software version	V3.0
Antenna Type:	PCB antenna
Antenna Gain:	0 dBi
RF Conducted Power:	Modulation:2.4G: POWER(MAX): 4.52dBm;
Operating Temperature:	Other: Min.: -10 °C to Max.: 40 °C
Operating Voltage:	Nominal Voltage: 100~240 AC