5 Button Light Remote

WSB5B, is a BLE mesh operated switch device that controls ON/OFF, intensity, and temperature of individual or group of lights.

Key Features

- **2AAA battery** powered switch
- **BLE4.2** based non-flooding intelligent **Mesh**
- **5 buttons** are used -

  One to indicate **CCT**, **Intensity**, and **On/OFF** function selection,

  one for ON or OFF and **pairing mode** selection,

  one for **selecting CCT**, and one for **selecting intensity**.

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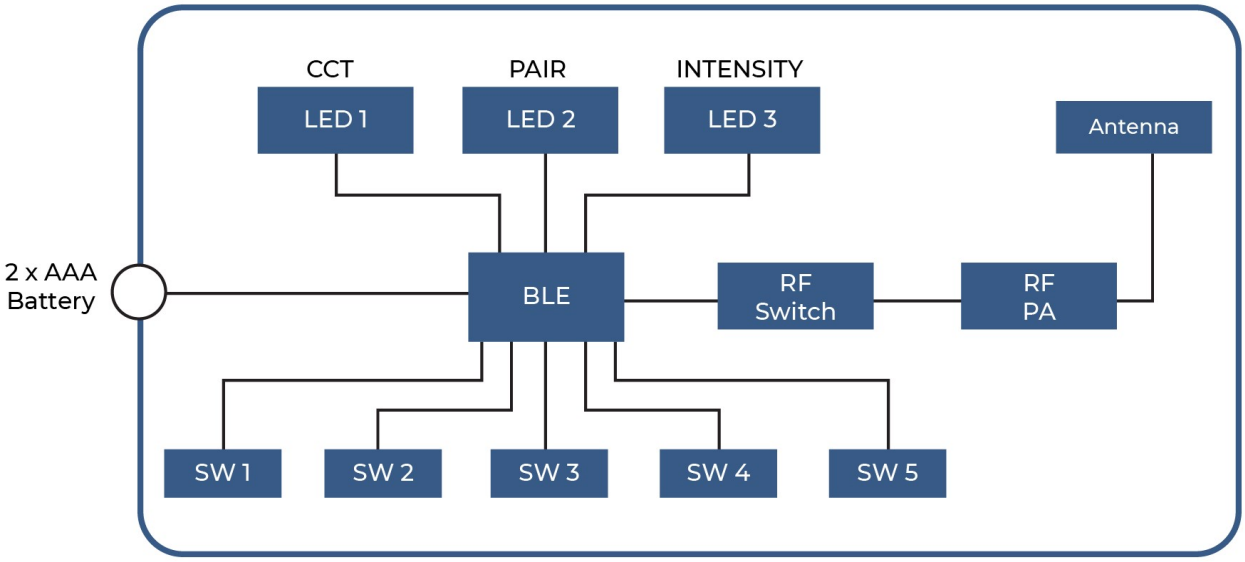
1. Block Diagram



SW1 - Intensity Up / CCT Up / Warm
SW2 - ON / OFF
SW3 - Intensity Down / CCT Down / Cool
SW4 - CCT Select
SW5 - Intensity Select

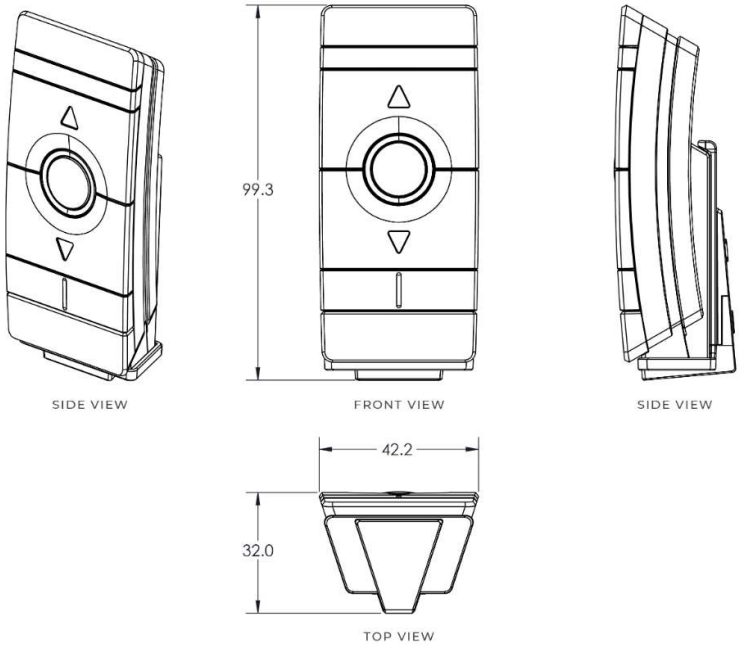
2. General Specifications

Connection	Symbol	Min	Typ.	Max.	Unit.	Remarks
Connection Distance (Device to Device)		10	20	50	m	In an open office environment
Number of Devices (Mesh Connection)					ea	In an open office environment (within mesh network)
Environmental						
Operating Temperature	t_j	-20		50	ºC	
Storage Temperature	t_s	-20		55	ºC	Limited by PIR optics discoloration
Relative Humidity	RH	20		95	%	Non-condensing application only
IP Rating			IP20			Indoor use only
Electrical						
Input Voltage	Vin	2	3	3.3	Vdc	2xAAA batteries in series
Input Current	Iin	1	3	33	mA	@3Vdc, Max RF transmitting
Output Current				5	mA	Per channel

Control					
Dimming Output		0	100	%	1% resolution
Programming Interface			Smartphone Application		Android/iOS
Mechanical					
Dimension	L x W x H		99.3 x 42.2 x 32.0	mm	
Net Weight			TBD	g	Including two batteries and a cradle

Bluetooth					
Frequency Range	2402	2402 - 2480	2480	MHz	
TX Power	6	8		dBm	Conductive
Frequency Drift(Max)	-25		25	kHz	dF2
Frequency Deviation	±225		±275	kHz	
Carrier Frequency Offset		30	150	kHz	
TX current			48	mA	Total current@ Max Tx power
Receive Frequency	2402	2402 - 2480	2480	MHz	
Rx Current			-37	mA	Total Current @Rx Mode
Receiver Sensitivity	-86		-75	dBm	

3. Device Dimension(mm)



4. Operation Scenarios

1. For Pairing

SW 2 - **Long press** more than **10 sec**, **Pair LED blinks**,
Shows the device in **Pairing Mode**

2. CCT Control

SW 4
CCT **LED blinks** and goes **OFF**.
States control mode is for **CCT control**

3. Intensity Control

SW 5
Intensity **LED blinks** and goes **OFF**.
States control mode is for **Intensity control**

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

FCC 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 or more of the following measures:
1)Reorient or relocate the receiving antenna.
2)Increase the separation between the equipment and receiver.
3)Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4)Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

CONNECTING THINGS TO LIFE

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Version 1.1