



# Bluetooth Single Rocker Switch

**The ILLUMRA™ Self-powered Bluetooth Wireless Single Rocker Light Switch** uses no wiring or batteries. Pressing the switch creates enough energy to transmit wireless signals to control lights and other devices connected to compatible receivers for hundreds of lighting manufacturers and distributors. These switches have built-in functionality for dimming, on/off, and momentary control.



## Features:

- Battery-free wireless control.
- Fits standard single or multi-gang switch box.
- Available in 6 designer colors.
- Create 3 and 4-way switch layouts without wiring.
- Can surface mount anywhere.
- Patented tamper resistant design.



## Applications



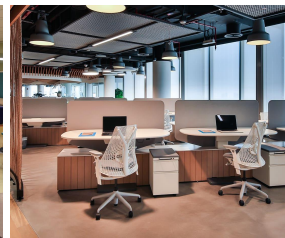
Retrofitting



New Construction



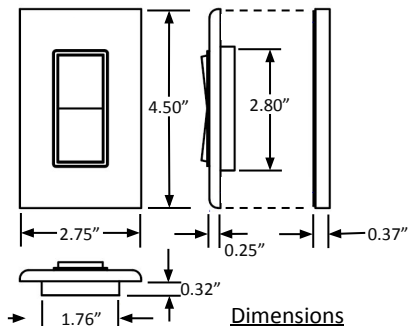
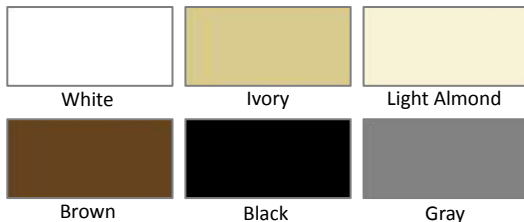
Classrooms



Offices



Warehousing



Dimensions

Technical Spec:	BTT-S1Axx Models
Range	30 feet (10m)
Frequency	Bluetooth (BLE) 2.4 GHz
Power Supply	EnOcean Self-generated when switch is pressed
Buttons	1 Rocker (2 button positions)
Output Channels	Only limited by number of receivers in range
Dimensions - Inches	2.75" (W) x 4.5" (H) x 0.62" (D)
Amb. Op. Temp. <sup>◇</sup> [Storage Temp.]	-13° to +149°F (-25° to +65°C) [-13° to +149°F (-25° to +65°C)]
Radio Certification	FCC (United States): SZV-PTM215U I.C. (Canada): 5713A-PTM215U
Addressing	Factory set unique ID (1 of 4 billion)

<sup>◇</sup> Temp. difference between controllers and switches should not exceed 140° F (60° C)

## Ordering (example: BTT-S1AIV)

BTT	-	S	1	A		
BTT = BLE 2.4 GHZ Transmitter**		S = Switch	1 = Single Rocker‡	A = American Style*	WH = White LA = Light Almond IV = Ivory	BR = Brown BK = Black GY = Gray

\*\* Additional frequencies available, Contact ILLUMRA for info.

‡ Dual Rocker versions available, Contact ILLUMRA for info.

This device or certain aspects thereof is protected by at least one U.S. or International patent or has at least one such patent application pending



# Bluetooth Single Rocker Switch

COMPATIBILITY		
Name	Model	Uses
Silvair	BTT-S1Axx	Allows rocker switch control of luminaire with an installed Silvair compatible system
Enlighted Fixture Micro-sensor	KIT-SU-5E-D	Allows rocker switch control of luminaire with an installed Enlighted Micro Sensor
Casambi	BTT-S1Axx	Allows rocker switch control of luminaire with an installed Casambi compatible system

## LINKS

[Product Page](#)



Silvair  
Eco-system



Enlighted  
Micro-Sensor



Casambi  
Eco-system



## BID SPECIFICATION~

### SELF-POWERED WIRELESS WALL SWITCHES

#### Part 1. Wireless Single Rocker Wireless Self-Powered Wall Switches

##### 1. Self-Powered Wireless Wall Switches

- a. BTT-S1A(xx) ILLUMRA Single Rocker style wall switch by Ad Hoc Electronics Inc., or equal

##### 2. Mechanical

- a. Switches shall be Self-Powered, kinetic energy harvesting, and wireless
- b. Switches shall be Single Rocker (2-button) Standard North American Style
- c. Switches shall fit into a standard North American size light switch junction box
- d. It shall be possible to install multiple switches using surface mounting plates available from the manufacturer or standard electrical multi-gang switch boxes
- e. Surface Mounting Plates shall be provided with BTT-S1Axx switch assemblies
- f. Switches must have a Tamper-Resistant feature built into the design
- g. All Switches shall be available in ivory, black, gray, white, brown, and light almond
- h. Switch faceplates shall be provided with BTT-S1Axx switch assemblies
- j. Switches shall have a fully enclosed electronics assembly
- k. Switches shall be constructed of PC and ABS plastic

##### 3. Electrical

- a. Switches shall use 2.4 GHz Bluetooth Low Energy (BLE) radios. Systems that use other radio frequencies shall not be acceptable
- b. Switches shall have a lateral range of at least 10 m (30 ft.) – commercial office space (typical), mesh network
- c. Switches shall comply with FCC Part 15.231 and IC RSS- 210

##### 4. Functional

- a. Switches shall be able to switch loads on and off when used with compatible relays and controllers
- b. Switches shall be able to dim loads up and down when used with compatible dimming relays and controllers
- c. Switches shall be able to offer momentary control functionality when used with compatible relays and controllers
- d. Switches shall be tested to exceed 250,000 presses

##### 5. Compliance

- a. Switches must be capable of meeting Buy American Act compliance