



General Description

SBM (Smart Bridge Module) is a bridge that transforms Bluetooth signals to Wi-Fi signaling. By adding SBM to a lighting system, system integrators can control light usage from outside the building. Control can also be obtained through an AI (Artificial Intelligence) assistant such as Amazon Alexa, or SmartThings, via an Internet cloud.

Features

Maximum peak output power : 22.46dBm for WiFi; 4.60dBm for BLE

Radio Frequency : 2.4 GHz band (WiFi: 2.412GHz-2.462GHz / BLE: 2.402GHz-2.480GHz)

Device Security

AES-128 Encryption with

3-level pairing keys (Network, APP, GUID)

Antenna

Internal Antenna

Connectivity

BLE(Bluetooth Low Energy), Wi-Fi Data rate up to 150Mbps

Technical Specifications

Operating : -20 - 50°C

Enclosure: UL94V-0 PC Plastic

Input Voltage : Unit powered by 5V/2A USB adaptor (recommended)

Support Legacy 802.11 b/g and HT 802.11n mode

Dimensions : 64.3mm x 27.1mm x 10.2mm (W x D x H)

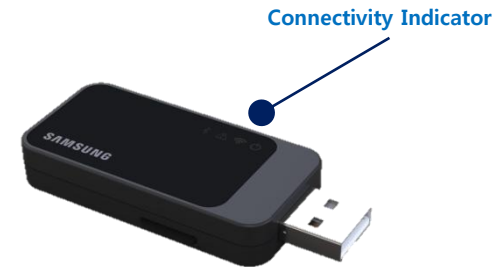
Connectivity Specification

Bluetooth Low Energy

Article	Specification
Frequency	2.4GHz ISM Band (2.402 – 2.480 GHz Utilized)
Maximum Average Power	≤ 5dBm

Wi-Fi

Article	Specification
Frequency	2.4GHz ISM Band (2.412 – 2.462 GHz Utilized)
Maximum Average Power	≤ 15dBm



Safety Information



FCC Statement

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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:

- 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 important announcement

Important Note:

RF Exposure Information and Statement

This device meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types: SBM-U-BW, WBUW (FCC ID: ZVA-IOT-S-SBM-U-B) has also been tested against this SAR limit. This device was tested for typical body-worn operations with the edge of the device kept 5mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 5mm separation distance between the user's body and the edge of the device.

