# sengled SLM-B01 WiFi Module User Manual



**sengled SLM-B01 WiFi Module**

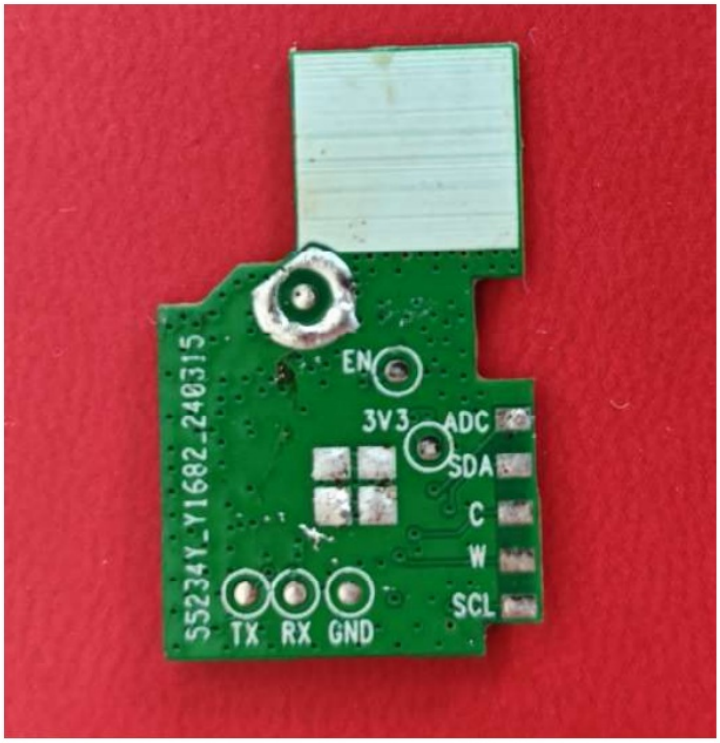
Contents



## Introduction

SLM-B01 is a cost-effective embedded 2.4 GHz WiFi(IEEE 802.11b/g/n/ax 1×1 compliant) and Bluetooth® 5.2 module launched by Sengled, Custom Nodes BK7235 technology, BK7235 integrates the antenna switch, RF balun, power amplification amplifier , low noise amplifier, filter and power management The module compact design requires very little external circuit and reduces PCB size to minimum.

## Module samples


## General information

1. Support 802.11b /g/n, The frequency range is 2412 MHz ~ 2462 MHz;
2. support (Bluetooth LE) Bluetooth 5.2  Bluetooth mesh The frequency range is 2402 MHz ~ 2480 MHz;
3. RISC-V 32-bit Microprocessor processing management;
4. SPI Flash: 4 MB(internal integrated flash );
5. Single power supply 2.7 to 3.6V, Average current: 85 mA;
6. Net network protocol (2) the IPv4 / IPv6, TCP/UDP; HTTP/HTTPS/SSL/MQTT/mDNS/CoAP;
7. Straight plug installation;
8. Compact size 17*27mm;

9. Integrated on-board antenna;
10. Internal co-existence mechanism between Wi-Fi and Bluetooth to share the same antenna.

## FCC Regulations

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.
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 notoccur 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.
    - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

**FCC RF Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED Warning statements

This device complies with Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference; and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

## Documents / Resources

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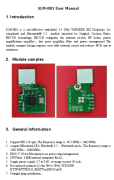
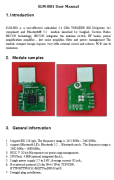
|  | **sengled SLM-B01 WiFi Module** [pdf] User Manual<br>SLM-B01, SLM-B01 WiFi Module, WiFi Module, Module |
|  | **sengled SLM-B01 WiFi Module** [pdf] User Manual<br>SLM-B01, SLM-B01 WiFi Module, WiFi Module, Module |

## References

- **User Manual**