

LOAMLIN SLZB-06p7

SMLIGHT SLZB-06p7 Zigbee 3.0 to Ethernet, USB, and WiFi Adapter with PoE Support

INSTRUCTION MANUAL

Brand: LOAMLIN | Model: SLZB-06p7

1. Product Overview

The SMLIGHT SLZB-06p7 is a versatile Zigbee 3.0 adapter designed for seamless integration with open-source automation platforms such as Zigbee2MQTT, Home Assistant, and ZHA. It supports multiple connection options including Ethernet, USB, and WiFi, with Power over Ethernet (PoE) capability for flexible deployment. This device comes pre-flashed and ready for use, offering robust performance with its CC2652P7 chip and enhanced antenna.

- **Versatile Connectivity:** Supports LAN, USB, and WiFi connections.
- **Power Options:** Can be powered via PoE or Type-C USB. A microUSB-Type-C adapter is included.
- **Zigbee 3.0 Gateway:** Functions as a Zigbee 3.0 gateway for Home Assistant, Zigbee2MQTT, and ZHA.
- **Enhanced Range:** Features a CC2652P7 Zigbee SoC with +20dB gain and a +5dB antenna.
- **Remote Updates:** CC2652P7 and ESP32 firmware can be updated remotely without physical access.
- **Secure Access:** Web interface login can be secured with a password.



Image: SMLIGHT SLZB-06p7 Zigbee 3.0 Adapter highlighting its key features.

2. Package Contents

Verify that all items listed below are included in your package:

- 1x SMLIGHT SLZB-06p7 Adapter
- 1x Antenna (+5dB)
- 1x microUSB to Type-C adapter
- Mounting accessories (screws, adhesive tape, screw-fix helper)

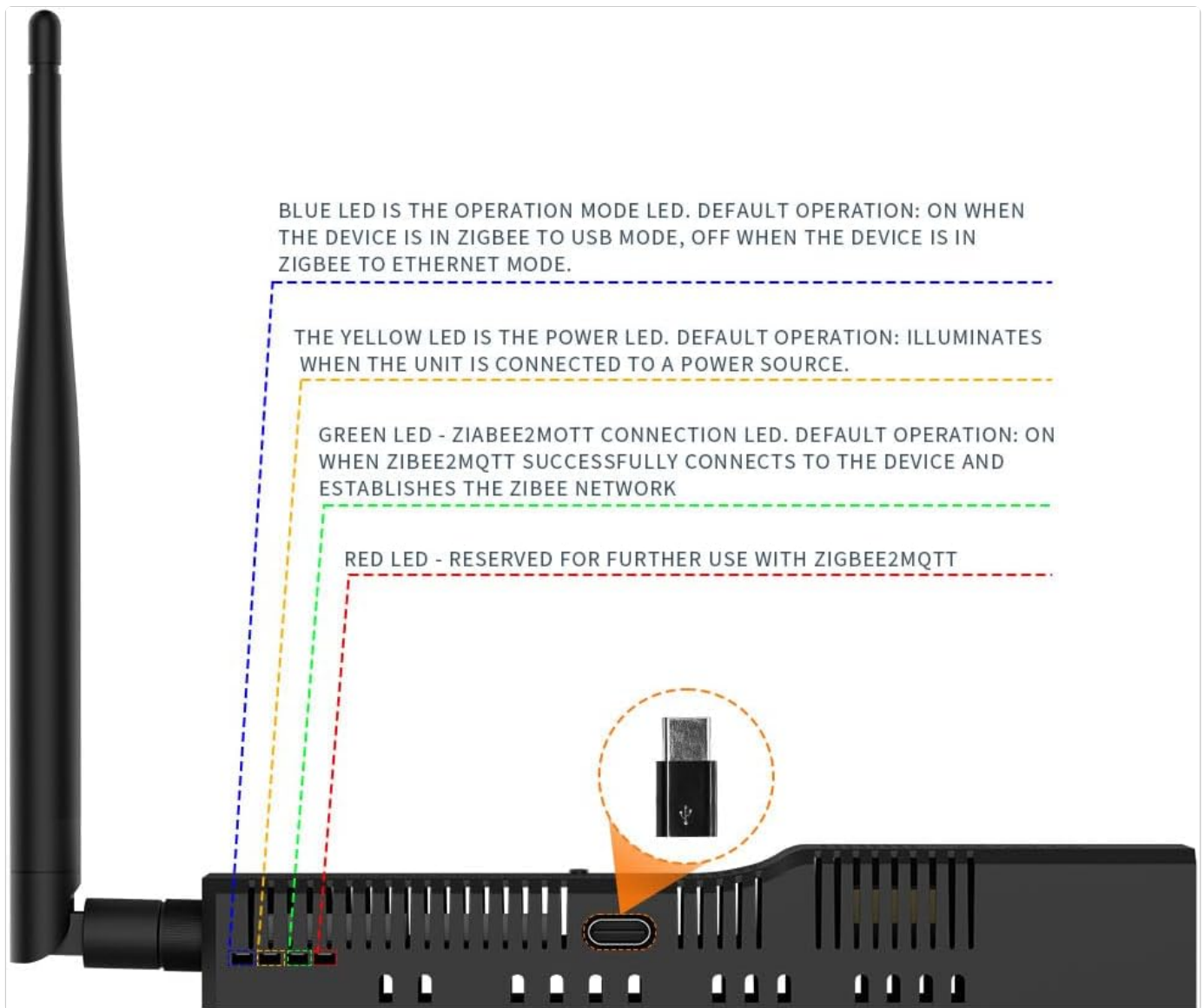


Image: Detailed view of the SMLIGHT SLZB-06p7 adapter and its included accessories.

Video: An unboxing video demonstrating the contents of the SLZB-06 package.

3. Setup and Installation

The SLZB-06p7 adapter is designed for flexible installation and can be used in various configurations. It comes pre-flashed for immediate use.

3.1. Connection Modes

The device supports LAN, USB, and WiFi connections. The operating mode can be changed via firmware settings or a physical button on the device.

- **LAN Mode:** Connect an Ethernet cable for stable network communication. Power can be supplied via Power over Ethernet (PoE) through the Ethernet port, eliminating the need for a separate power supply.
- **USB Mode:** Connect the device directly to your host system (e.g., Home Assistant server) via USB. A microUSB-Type-C adapter is provided for compatibility.
- **WiFi Mode:** For environments without USB or Ethernet access, the adapter can connect to your server over WiFi.



Image: Diagram illustrating the use of the SLZB-06 in USB mode with Home Assistant and LAN mode with PoE.

3.2. LED Indicators

The device features multiple LED indicators to show its status:

- **Blue LED:** Operation mode LED. ON when in Zigbee to USB mode, OFF when in Zigbee to Ethernet mode.
- **Yellow LED:** Power LED. Illuminates when the unit is connected to a power source.
- **Green LED:** Zigbee2MQTT connection LED. ON when Zigbee2MQTT successfully connects and establishes the Zigbee network.
- **Red LED:** Reserved for further use with Zigbee2MQTT.

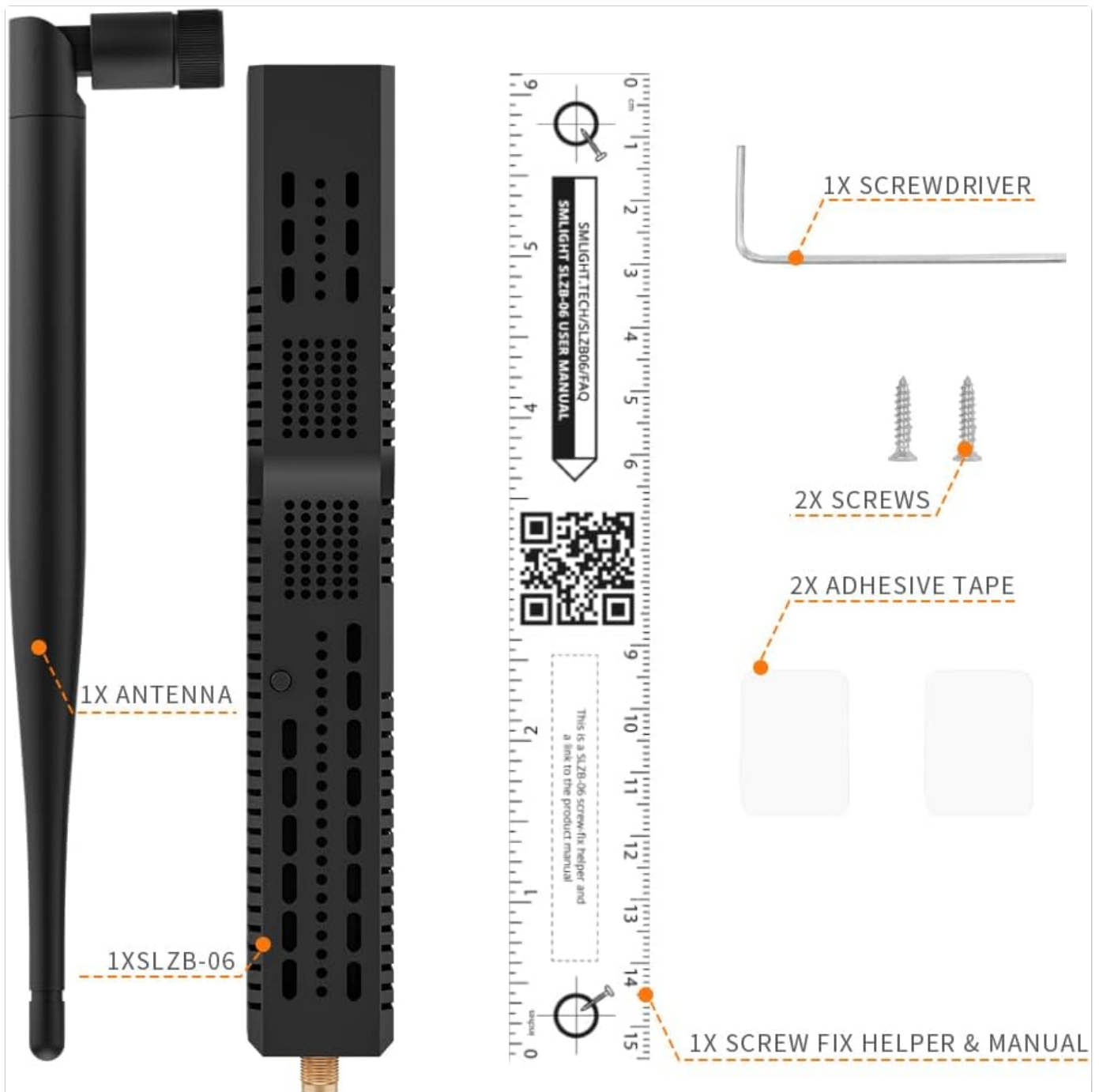


Image: Diagram showing the location and function of the LED indicators on the SLZB-06p7.

3.3. Firmware Update

Both the CC2652P7 and ESP32 chips can be updated remotely. The ESP32 can also be flashed over USB with an integrated autoflash feature; simply plug in the Type-C cable and flash.

Video: A guide on how to use the SLZB-06 adapter, including setup and configuration steps.

Video: Instructions for setting up a Zigbee 3.0 USB dongle, which can be applied to the SLZB-06p7 in USB mode.

Video: Comprehensive guide on how to use the SLZB-06, covering various functionalities and setup options.

4. Operating the Device

The SLZB-06p7 can function as a Zigbee coordinator or a Zigbee router. It also supports adding multiple coordinators to a

single server, allowing you to cover different rooms or buildings and connect them to the same Home Assistant instance.

4.1. Web Interface Access

The device features a web interface for configuration and management. Access to this interface can be secured with a password for enhanced security.

4.2. Integration with Home Automation Platforms

The SLZB-06p7 is compatible out-of-the-box with:

- **Zigbee2MQTT:** A popular open-source Zigbee gateway.
- **Home Assistant:** A powerful open-source home automation platform.
- **ZHA (Zigbee Home Automation):** Home Assistant's native Zigbee integration.

Video: Demonstrates a Home Assistant hub upgrade, showcasing the integration capabilities of the SLZB-06p7.

5. Maintenance

Regular firmware updates are recommended to ensure optimal performance and access to the latest features and security enhancements. Updates can be performed remotely via the device's web interface.

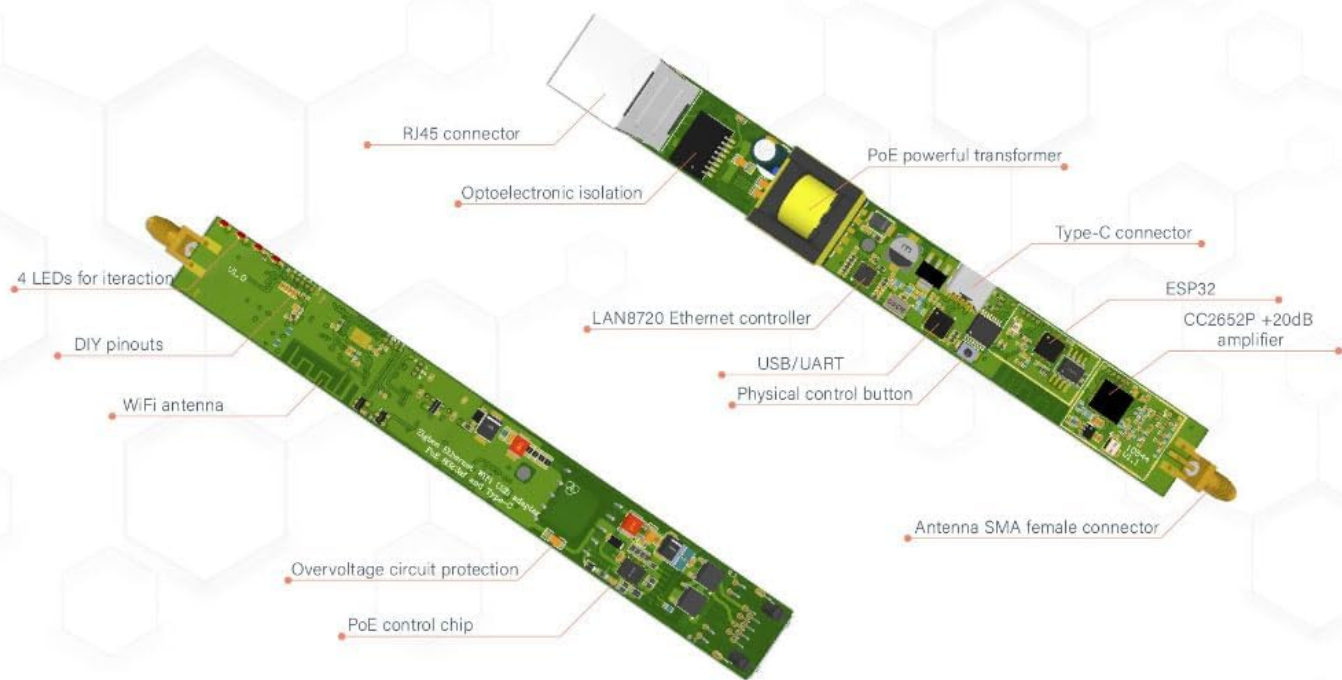
6. Troubleshooting

If you encounter issues, refer to the official SMLIGHT FAQ for common problems and solutions:
<https://smlight.tech/slzb06/faq>
Ensure the device is properly powered and connected according to your chosen mode (LAN, USB, or WiFi). Check LED indicators for status feedback.

7. Specifications

Feature	Detail
Product Dimensions	6.3 x 1.02 x 0.87 inches
Item Weight	3.17 ounces (90 Grams)
Item Model Number	SLZB-06p7
Manufacturer	SMLIGHT
Brand	LOAMLIN
Hardware Interface	Ethernet, USB

Color	Black
Compatible Devices	Laptop, Desktop, Tablet, Smartphone, Printer, Smart TV, Speaker, Internet Protocol Camera, Projector, Game Console, Keyboard, Mouse, Headphone, Webcam
Data Link Protocol	Ethernet, IEEE 802.3
Data Transfer Rate	100 Megabits Per Second
Zigbee SoC	CC2652P7 Chip
Output Gain	+20dB
Antenna Gain	+5dB
PoE Support	Yes
Pre-flashed	Yes
Web Interface Security	Password protected



SPECIFICATION

SLZB-06	
Main Zigbee 3.0 chip	CC2652P7 Texas Instruments 48-MHz Arm Cortex-M4F CPU 352 KB flash 256 KB ROM 8 KB of cache SRAM
Main control chip	ESP32 Espressif - Dual core processor 520 KB of SRAM 448 KB of ROM
USB/UART converter	CP2102
Ethernet Soc	LAN8720
Output gain	+20dB
Additional antenna gain	+5dB
Ethernet support	Yes
WiFi support	Yes
PoE support	Yes

PoE support	Yes
PoE standart	IEEE802.3af (15W)
USB Type-C control	Yes
ESP32 Autboot	Yes
Pre-flashed	Yes
Zigbee 3.0 Coordinator mode	Yes
Zigbee 3.0 Router mode	Yes
Zigbee to Ethernet	Yes
Zigbee to USB	Yes
Zigbee2MQTT support	Yes, out-of-the-box
ZHA support	Yes, out-of-the-box
Tiny design	Yes
Opensource firmware	Yes

Image: Detailed internal components and technical specifications of the SLZB-06.

8. Warranty and Support

For support and warranty information, please refer to the manufacturer's official website or contact your retailer. Product protection plans may be available for purchase separately.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question