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SONOFF ZBBridge-U

SONOFF Zigbee Bridge Ultra User Manual

Model: ZBBridge-U

1. INTRODUCTION

The SONOFF Zigbee Bridge Ultra (ZBBridge-U) is a high-performance smart hub designed to connect and manage Zigbee sub-devices within your smart home ecosystem. It offers Matter compatibility, allowing seamless integration with various IoT platforms. Equipped with a 1.5GHz dual-core CPU, 1GB DDR4 memory, and 8GB eMMC storage, it ensures smooth and reliable automation. This bridge supports up to 256 SONOFF Zigbee sub-devices and provides robust connectivity with both Wi-Fi and wired Ethernet options, extending communication range up to 200m in Turbo Mode. It also features smart home security functionalities, enabling custom alarm scenes.



Figure 1: The SONOFF Zigbee Bridge Ultra device alongside its product packaging.

2. PRODUCT FEATURES

- **Matter Compatibility:** Integrates Zigbee sub-devices into the Matter ecosystem when the Bridge Ultra and a Matter hub are on the same LAN.
- **Enhanced Performance:** Features a 1.5GHz dual-core CPU, 1GB DDR4 memory, and 8GB eMMC storage for efficient operation.
- **Extensive Connectivity:** Supports up to 256 SONOFF Zigbee sub-devices with a communication distance of up to 200m in open environments (Turbo Mode).
- **Dual Network Options:** Offers both Wi-Fi and wired Ethernet (RJ45 port) connections for reliable network access.
- **Smart Home Security:** Functions as an alarm system, allowing users to set up defense scenes triggered by NFC, wireless buttons, or app control.



Figure 2: The SONOFF Zigbee Bridge Ultra positioned as the central hub for a smart home, indicating compatibility with Matter, Apple Home, Alexa, and Google Home.

Performance Comes to a Higher Level



*Data comes from SONOFF labs. The test shows that it can manage up to 256 Zigbee sub-devices from the SONOFF brand and eWeLink ecosystem. The specific number depends on the actual usage environment.

*Data comes from SONOFF labs. The test shows that its communication distance can reach 200m in an open environment in the Turbo Mode. The specific range depends on the actual usage environment.

Figure 3: An illustration highlighting the enhanced performance specifications of the Zigbee Bridge Ultra, including its 1.5GHz dual-core CPU, 1GB DDR4 memory, 8GB eMMC storage, support for 256 sub-devices, and 200m coverage.

Bridge to Matter Ecosystem

Break down the barriers of different IoT Platforms. Keep the Zigbee Bridge Ultra and the Matter hub in the same LAN, the Zigbee sub-devices can be seamlessly integrated with the Matter ecosystem.

*Only supports Zigbee sub-devices from the SONOFF brand and eWeLink ecosystem.

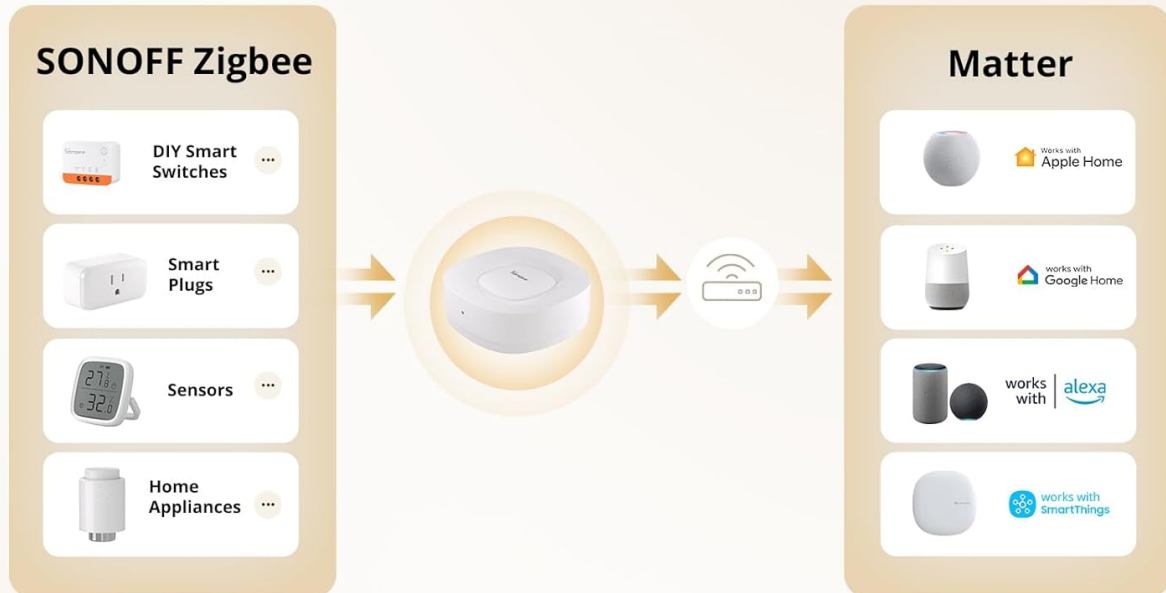


Figure 4: A diagram illustrating how SONOFF Zigbee sub-devices (DIY Smart Switches, Smart Plugs, Sensors, Home Appliances) connect to the Matter ecosystem (Apple Home, Google Home, Alexa, SmartThings) through the Zigbee Bridge Ultra.

3. PACKAGE CONTENTS

Upon opening the package, verify that all items are present and in good condition:

- 1 x Zigbee Bridge Ultra (ZBBridge-U)
- 1 x Network cable (1m)
- 1 x Quick guide
- 1 x USB Type-C cable (1m)

What's in the Box

1. Zigbee bridge x1
2. Network cable(1m)x1

3. Quick guide x1
4. USB Type-C cable(1m)x1



Figure 5: The complete contents of the SONOFF Zigbee Bridge Ultra package, including the bridge unit, network cable, quick guide, and USB Type-C cable.

4. SETUP GUIDE

Follow these steps for the initial setup of your SONOFF Zigbee Bridge Ultra:

1. **Power Connection:** Connect the provided USB Type-C cable to the ZBBridge-U and plug the other end into a suitable USB power adapter (not included). The device will power on.
2. **Network Connection:**
 - **Wired Ethernet:** For a stable and responsive connection, connect one end of the provided network cable to the RJ45 port on the ZBBridge-U and the other end to your router or network switch.
 - **Wi-Fi:** If using Wi-Fi, ensure the device is within range of your wireless network. You will configure Wi-Fi settings through the eWeLink app during the pairing process.

Reliable Connection Does Matter

As the brain of your smart home, a good connection is important. Apart from Wi-Fi, Zigbee Bridge Ultra supports Ethernet RJ45 port connection, which offers a reliable and responsive connection for your home automation experience.



Ethernet RJ45



Figure 6: The SONOFF Zigbee Bridge Ultra demonstrating its wired Ethernet connection via the RJ45 port, ensuring a reliable network link.

3. **App Installation:** Download and install the eWeLink app on your smartphone or tablet. The app is available on both Google Play Store and Apple App Store.
4. **Device Pairing:** Open the eWeLink app, register or log in, and follow the in-app instructions to add the SONOFF Zigbee Bridge Ultra. This typically involves selecting the device type and following prompts to connect it to your network.
5. **Matter Integration (Optional):** To integrate with the Matter ecosystem, ensure your Matter hub (e.g., Apple HomePod, Apple TV) is on the same local area network (LAN) as the Zigbee Bridge Ultra. Follow the instructions provided by your Matter hub for adding new devices.

5. OPERATING INSTRUCTIONS

Once the Zigbee Bridge Ultra is set up, you can begin managing your smart home devices:

5.1 Adding Zigbee Sub-devices

The ZBBridge-U supports adding up to 256 SONOFF Zigbee sub-devices. Refer to the specific sub-device's manual for pairing instructions, which usually involve putting the sub-device into pairing mode and then initiating a search from the eWeLink app via the Bridge Ultra.

5.2 Creating Smart Scenes

Utilize the eWeLink app to create custom automation scenes. For example:

- **NFC Triggered:** Use an NFC tag to activate a scene, such as turning on lights or adjusting temperature.
- **Wireless Button:** Program a wireless button to trigger specific actions.
- **App Remote Control:** Manually activate scenes from the eWeLink app.



Figure 7: An example of a smart scene where a motion sensor detects movement, triggering a connected light fixture to illuminate, enhancing convenience in daily life.

5.3 Voice Assistant Integration

Integrate your Zigbee sub-devices with popular voice assistants through the Matter ecosystem or direct eWeLink integrations:

- **Apple Home/Siri:** With Matter compatibility, you can control Zigbee sub-devices via Siri and the Apple Home app.
- **Amazon Alexa:** Link your eWeLink account to Alexa for voice control.
- **Google Home:** Link your eWeLink account to Google Home for voice control.

Activate Siri to Action

Friendly to Apple users. The Matter function can integrate the Zigbee sub-devices of Zigbee Bridge Ultra into the Apple Home. You can easily achieve home automation via your phone, pad, or watch.

*Matter Hub (HomePod, Apple TV, etc) is needed.



Figure 8: A smartphone screen showing the Apple Home app interface, with Siri activated to control a SONOFF ZBMINIL2 device, demonstrating seamless integration with Apple's ecosystem.

6. MAINTENANCE

To ensure optimal performance and longevity of your SONOFF Zigbee Bridge Ultra:

- Keep the device in a dry environment, away from direct sunlight and extreme temperatures.
- Clean the device periodically with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- Regularly check for firmware updates through the eWeLink app to benefit from new features and security enhancements.
- Ensure proper ventilation around the device to prevent overheating.

7. TROUBLESHOOTING

If you encounter issues with your Zigbee Bridge Ultra, refer to the following common problems and solutions:

7.1 Device Not Powering On

- Ensure the USB Type-C cable is securely connected to both the bridge and the power adapter.
- Verify that the power adapter is functioning correctly and plugged into a live power outlet.

7.2 Connectivity Issues (Wi-Fi/Ethernet)

- **Ethernet:** Check if the network cable is properly connected to both the bridge and your router/switch. Ensure your router is powered on and has internet access.
- **Wi-Fi:** Confirm that your Wi-Fi network is active and the bridge is within range. Re-enter Wi-Fi credentials in the eWeLink app if necessary.
- Restart your router, the Zigbee Bridge Ultra, and your smartphone.

7.3 Unable to Add Sub-devices

- Ensure the sub-device is in pairing mode as per its specific manual.
- Make sure the sub-device is within close proximity to the Zigbee Bridge Ultra during the pairing process.
- Check if the sub-device is a SONOFF brand device and compatible with the eWeLink ecosystem, as the bridge only supports these.
- Verify that the bridge has not reached its maximum capacity of 256 sub-devices.

7.4 Matter Integration Problems

- Confirm that both the Zigbee Bridge Ultra and your Matter hub are connected to the same local area network (LAN).
- Ensure your Matter hub is properly set up and functioning.

8. TECHNICAL SPECIFICATIONS

Model Number	ZBBridge-U
Product Dimensions	3.23 x 3.23 x 1.1 inches (82 x 82 x 28mm)
Item Weight	3.46 ounces
CPU	1.5GHz Dual-Core
Memory	1GB DDR4
Storage	8GB eMMC
Zigbee Chip	EFR32MG21 (Zigbee 3.0 capable)
Connectivity	Wi-Fi (IEEE 802.11b/g/n 2.4GHz), Ethernet (RJ45 10/100Mbps)
Max Sub-devices	256
Communication Range	Up to 200m in open environment (Turbo Mode)
Power Supply	5V Type-C
Operating Temperature	-10°C to 40°C
Operating Humidity	5%-95% RH, non-condensing
Manufacturer	SONOFF

ZBBridge-U VS ZBBridge-P



			
		ZBBridge-U	ZBBridge-P
Hardware	Chip	EFR32MG21+RV1109	ESP32+CC2652P
	CPU	1.5GHz Dual-core	--
	NPU	1.2TOPS	--
	DDR4	1GB	--
	eMMC	8GB	--
Connection Way		Wi-Fi/Ethernet	Wi-Fi
Sub-devices Number		256	128
Security Mode		√	√
Sub-devices OTA		√	√
Matter Bridge		√	--
Turbo Mode		√	--

Figure 9: A comparative table outlining the hardware and feature differences between the ZBBridge-U and ZBBridge-P models, highlighting the ZBBridge-U's superior specifications.

9. SUPPORT & WARRANTY

For technical support, troubleshooting assistance, or warranty information, please contact SONOFF customer service or visit their official website.

- **Manufacturer:** SONOFF
- **Support Email:** support@itead.cc
- **Official Website:** sonoff.tech
- **eWeLink App:** Download from Google Play Store or Apple App Store for device management and updates.

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.




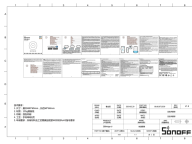


Figure 10: The rear view of the product packaging, displaying detailed specifications, regulatory compliance information, and contact details for support.

10. OFFICIAL PRODUCT VIDEOS

No official product videos from the seller were found in the provided data for this product.

Related Documents - ZBBridge-U

	<p>Sonoff ZBBridge-U Zigbee and Matter Gateway User Manual</p> <p>Comprehensive user manual for the Sonoff ZBBridge-U, a Zigbee 3.0 and Matter compatible gateway that enables smart home automation, voice control, and scene linkage. Learn about its specifications, setup, device pairing, and Matter synchronization.</p>
	<p>SONOFF Zigbee Bridge Ultra User Manual - Smart Home Gateway</p> <p>Comprehensive user manual for the SONOFF Zigbee Bridge Ultra (ZBBridge-U), a Zigbee 3.0 gateway with Matter bridge capabilities. Learn about setup, features, specifications, and compliance.</p>

	<p>Sonoff ZBBridge-U User Manual: Zigbee 3.0 Gateway and Matter Bridge</p> <p>Comprehensive user manual for the Sonoff ZBBridge-U, a Zigbee 3.0 gateway. Learn about its features, specifications, setup process, adding Zigbee sub-devices, Matter integration, and compliance information.</p>														
	<p>SONOFF Zigbee Bridge Ultra (ZBBridge-U) Quick Start Guide Setup & eWeLink App Connection</p> <p>Get started with your SONOFF Zigbee Bridge Ultra (ZBBridge-U) using this quick guide. Learn essential setup steps, how to connect to the eWeLink app, and integrate Zigbee devices for a smarter home. Find official documentation and support.</p>														
	<p>SONOFF ZBBridge-U User Manual: Zigbee 3.0 Gateway and Matter Bridge</p> <p>Comprehensive user manual for the SONOFF ZBBridge-U, a Zigbee 3.0 gateway that bridges Zigbee devices to the Matter ecosystem. Learn about setup, specifications, features, and compliance information.</p>														
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