SLZB Series Overview

Executive summary:

- **SLZB-06 series** - can run Zigbee and Thread (and capable for Multiprotocol, but not recommended by Home Assistant and deprecated), connects over Ethernet, could be powered by PoE or Type-C (if you do not have PoE - can connect Ethernet and power with Type-C). Support Wi-Fi and Bluetooth (BT is based on ESPHomne firmware). Could be used as Zigbee Coorinator, Zigbee Router or Open Thread Border Router (all models);
- **SLZB-MR series** - supercool version with two radios for Zigbee and Thread networks at the same time, connected over Ethernet, could be powered by PoE or Type-C (if you do not have PoE - can connect Ethernet and power with Type-C). Support Wi-Fi and Bluetooth (BT is based on ESPHomne firmware). Could be used as Zigbee Coorinator, Zigbee Router AND Open Thread Border Router at the same time;
- **SLZB-07 series** - can run Zigbee and Thread (and Multiprotocol, but not recommended by Home Assistant and deprecated), connects over USB. Could Zigbee Coorinator, Zigbee Router or Open Thread Border Router (all models);
- **SLZB-06xU/MRxU (U series)** - same as SLZB-06x/MRx but better:
  - USB host support
  - additional 2MB PSRAM
  - updated ethernet controller

More Detailed Summary

SLZB-06 Series

Triple radio:
• **SoC1:** CC26XX or EFR32XX
  ◦ Zigbee / Thread
• **ESP32:**
  ◦ Wi-Fi
  ◦ Bluetooth
 	
Includes 1 external 5 dB and 1 internal 2 dB antenna.
Based on **CC26XX** (TI) and **EFR32XX** (Silicon Labs) SoCs.
Silicon Labs models support Zigbee + Thread via **Multiprotocol firmware**, but this is **not recommended by Home Assistant** (see FAQ).
Powered by **SLZB-OS** with full feature set including web UI, VPN, OTA, scripting, and native Home Assistant integration.
	SLZB-06 Series

SLZB-MR Series

Quadruple radio:
• **SoC1:** EFR32XX
  ◦ Thread / Zigbee
• **SoC2:** CC26XX
  ◦ Zigbee / Thread
• **ESP32:**
  ◦ Wi-Fi
  ◦ Bluetooth
 	
Includes 2× external 5 dB and 1× internal 2 dB antenna.
Supports true **simultaneous Zigbee and Thread** operation on separate SoCs (e.g., ZHA + Zigbee2MQTT or dual Thread networks).
Powered by **SLZB-OS** with full feature set identical to SLZB-06 series.
	SLZB-MR Series

SLZB-07 Series

Supercompact USB-based coordinator with 1 radio SoC (TI or Silicon Labs). Designed for low power, plug-and-play setups (Raspberry Pi, miniPC, etc.). Benefits from full SLZB firmware stack with preconfigured compatibility.	SLZB-07 Series

SLZB Series – Tech Details

HIGH LEVEL OVERVIEW of SLZB Series

Feature / Model Series	SLZB-06 Series	SLZB-MR Series	SLZB-07 Series
Models in Series	5 models (06, 06M, 06p7, 06p10, 06Mg24)	3 models (MR1, MR2, MR3)	4 models (07, 07p7, 07p10, 07Mg24)
Zigbee Support	✅	✅	✅
Thread Support	✅	✅ Native on separate SoC	✅
Wi-Fi Support	✅	✅	✅
Bluetooth Support	✅	✅	✅
Radio SoC 1 (Zigbee/Thread)	CC26XX or EFR32XX Series	EFR32XX Series	CC26XX or EFR32XX Series
Radio SoC 2 (Thread/Zigbee)	✅	CC26XX Series	✅
Radio SoC 3 (Wi-Fi/Bluetooth)	✅ ESP32 2×240 MHz	✅ ESP32 2×240 MHz	✅
Radio Count	Triple (Zigbee or Thread + Wi-Fi + Bluetooth)	✅ Quadraple (Zigbee + Thread + Wi-Fi + Bluetooth)	Single (Zigbee or Thread)
Ethernet Support	✅	✅	✅
Ethernet-to-Wi-Fi bridge mode	✅	✅	✅
PoE Support	✅ Active / 802.3af 48V	✅ Active / 802.3af 48V	✅
USB Connectivity	✅	✅	✅
Form Factor	Compact with 1x Antenna	Compact with 2x Antennas	Ultra-Compact USB with 1x Antenna
Antenna Count	2 Antennas	3 Antennas	1 Antenna
Antenna Type	External 5dB (Zigbee/Thread) + Internal (Wi-Fi/Bluetooth)	2× External 5dB (Zigbee and Thread) + Internal (Wi-Fi/Bluetooth)	External 3dB (Zigbee/Thread)
Target Use Case	General & Industrial	Advanced / Multi-mesh	Plug-and-play USB
Multi-Network Support	✅	✅	✅
Max Device Scalability	~150–400 devices, depending on model	~300–750 devices, depending on model	~150–400 devices, depending on model
Zigbee2MQTT Compatible	✅ Plug-and-Play	✅ Plug-and-Play	✅ Plug-and-Play
Home Assistant ZHA Compatible	✅ Plug-and-Play	✅ Plug-and-Play	✅ Plug-and-Play

Feature / Model Series	SLZB-06 Series	SLZB-MR Series	SLZB-07 Series
Open Thread Border Router Compatible	Plug-and-Play	Plug-and-Play	Plug-and-Play

> Some EFR32-based models support Zigbee + Thread via **Multiprotocol firmware**, but this is **not recommended by Home Assistant**, see FAQ section here

U series devices

U series devices are complete analogues of the regular SLZB-06x/MRx devices but with an updated SoC and PCB.
Full list of HW updates:

- Updated SoC ESP32S3R2. 2x 240MHz cores, 320Kib RAM + 2MB PSRAM, 16MiB flash, native USB host and device support.
- Updated ethernet controller
- Ethernet port LEDs control circuit
- RTS/CTS lines for radio modules (you can use firmware with HW flow control)

What dongles (USB sticks) can be connected to U series USB host?

The new **U** series coordinators support connecting **any serial devices** on the **following chipsets**:

- **CP210x**
- **PL2303**
- **CH340**
- **CH341**
- **CH9102**

Compatibility with other chipsets is not guaranteed!
To find out which chipset your dongle uses, please contact USB dongle manufacturer's support.

SLZB-06 Models

The SLZB-06 series is a versatile line of PoE-enabled Zigbee and Thread coordinators built for reliability, performance, and advanced integration scenarios. Featuring USB, Ethernet, and 802.3af PoE connectivity options, these models are ideal for both residential smart homes and industrial environments.

Each SLZB-06 model includes a powerful Zigbee/Thread radio (based on either Texas Instruments CC26XX or Silicon Labs EFR32MG SoCs) and an onboard ESP32 that runs SLZB-OS - a secure operating system with web-based configuration, OTA updates, scripting, Home Assistant support, and VPN capabilities.

Use the table below to compare models based on SoC type, wireless protocol support, maximum Zigbee device capacity, and recommended integration method.

Feature	SLZB-06	SLZB-06M	SLZB-06MG24	SLZB-06P7	SLZB-06P10
Radio 1 – SoC Type	CC2652P	EFR32MG21	EFR32MG24	CC2652P7	CC2674P10
Radio 1 – Manufacturer	Texas Instruments	Silicon Labs	Silicon Labs	Texas Instruments	Texas Instruments
Maximum Connected End Devices	up to 200	up to 200	up to 350	up to 300	up to 400
Best for	Zigbee2MQTT	ZHA	ZHA	Zigbee2MQTT	Zigbee2MQTT
Good with	ZHA	Zigbee2MQTT	Zigbee2MQTT	ZHA	ZHA
Zigbee Support	All models natively support Zigbee				
Thread Support	Supported on all models natively				
Wi-Fi Support	Native support 2.4 GHz, including Ethernet-to-Wi-Fi Bridge mode				
Bluetooth ESPHome Support	All models support BLE via ESP32 and ESPHome integration				
Powered by SLZB-OS	Yes, out of the box				
Multiprotocol	No	Yes	Yes	No	No
Note	*Multiprotocol mode is **not recommended by Home Assistant**. See FAQ item: "What is the current state of multiprotocol support?" .*				

SLZB-MR Models

The SLZB-MR series represents the most advanced line of Zigbee and Thread coordinators available on the market. These devices feature quad-radio configurations, enabling simultaneous operation of multiple Zigbee networks or parallel Zigbee and Thread infrastructures on physically separated chips.

Each model includes two independent radio SoCs (one from Texas Instruments and second from Silicon Labs), along with an onboard ESP32 running SLZB-OS. This architecture eliminates the limitations of multiprotocol firmware by physically separating the protocols across dedicated chips - resulting in superior reliability and performance. Advanced user can also utilize to run both ZHA and Zigbee2MQTT at the same time ont he same device.

The table below compares SLZB-MR models by radio generation, supported protocols, maximum device count, and recommended use cases such as ZHA + Zigbee2MQTT or Matter over Thread.

Feature	SLZB-MR1	SLZB-MR2	SLZB-MR3
Radio 1 – SoC Type	EFR32MG21	EFR32MG21	EFR32MG24
Radio 1 – Manufacturer	Silicon Labs	Silicon Labs	Silicon Labs
Radio 2 – SoC Type	CC2652P7	CC2652P	CC2674P10
Radio 2 – Manufacturer	Texas Instruments	Texas Instruments	Texas Instruments
Maximum Connected End Devices	up to **500** (200+300)	up to **400** (200+200)	up to **750** (350+400)
Best for	Native on all protocols on different chips (dual Zigbee or Zigbee+Thread)		
Zigbee Support	Native on all models (via first SoC)		
Thread Support	Native on all models (via second SoC)		
Multiple Zigbee Network Support	Native on all models (can run ZHA and Z2M, or 2x Z2M)		
Wi-Fi Support	2.4 GHz via ESP32 with SLZB-OS; includes Ethernet-to-Wi-Fi Bridge		
Bluetooth ESPHome Support	Supported via ESP32 (BLE + ESPHome integration)		
Powered by SLZB-OS	Yes, all Features are Available!		
Multiprotocol	Not needed – Zigbee and Thread run on separate dedicated SoCs		
Note	*SLZB-MR devices use dedicated chips for Zigbee and Thread, ensuring superior stability and performance.*		

SLZB-07 Models

The SLZB-07 series offers a compact and energy-efficient alternative to full-featured Ethernet-based coordinators. Designed primarily for USB-powered use, these models integrate a high-performance Zigbee / Thread radio SoC into a minimalistic form factor - ideal for plug-and-play setups on PCs, Raspberry Pi, or miniPC.

All SLZB-07 devices are preflashed and support native integration with popular home automation platforms such as Home Assistant (ZHA, Zigbee2MQTT) and Matter (on Thread-capable models). While the SLZB-07 series lacks an onboard ESP32 and web UI, it offers excellent performance and cost-efficiency for focused applications.

Use the table below to compare the key features of each SLZB-07 model, including SoC generation, multiprotocol support, and preferred usage.

Feature	SLZB-07	SLZB-07P7	SLZB-07P10	SLZB-07MG24
Radio 1 – SoC Type	EFR32MG21	CC2652P7	CC2674P10	EFR32MG24

Feature	SLZB-07	SLZB-07P7	SLZB-07P10	SLZB-07MG24
Radio 1 – Manufacturer	Silicon Labs	Texas Instruments	Texas Instruments	Silicon Labs
Maximum Connected End Devices	up to 200	up to 250	up to 400	up to 350
Best for	ZHA	Zigbee2MQTT	Zigbee2MQTT	ZHA / Thread
Good with	Zigbee2MQTT	ZHA	ZHA	Zigbee2MQTT
Zigbee Support	Native Zigbee support on all models			
Thread Support	Supported on all models natively			
Multiprotocol	Yes	No	No	Yes
Note	*Multiprotocol mode is **not recommended by Home Assistant**. See FAQ item: "What is the current state of multiprotocol support?" .*			

SLZB-OS Feature Overview

SLZB-OS is a firmware preinstalled on all SLZB-06 and MR series devices with. It provides a powerful local web interface, configuration tools, scripting, and network utilities - making your coordinator more than just a coordinator.

The table below outlines key features included in SLZB-OS. These are designed to support both beginners and advanced users by simplifying smart home integrations, increasing network visibility, and adding flexibility without requiring third-party tools.

	Feature	Description
????	Web UI	Access configuration and diagnostics via local web interface.
????	OTA Firmware Updates	Update both Zigbee SoC and ESP32 firmware via web interface.
????	Built-in VPN (WireGuard)	Secure remote access via integrated VPN client.
????	Ethernet-to-Wi-Fi Bridge	Use the device to bridge wired Ethernet to 2.4 GHz Wi-Fi network.
????	Zigbee2MQTT & ZHA Config Generator	Auto-generates config snippets for quick integration into popular coordinators.
????	Home Assistant Integration	Works natively with Home Assistant (ZHA & Zigbee2MQTT), no extra steps needed.

	Feature	Description
????	Home Assistant Autodiscovery	Enables seamless device detection and setup in Home Assistant.
????	mDNS Autodiscovery	Broadcasts device presence on local network using mDNS.
????	Standalone Zigbee Hub	Operates without a separate Zigbee2MQTT or Home Assistant instance.
????	Local Scripting	Write custom automations using embedded scripting engine.
????	Multi-language Support	Available in over 20 languages with automatic detection.
????	IEEE Address Management	Change Zigbee MAC/IEEE address via web interface.
????	Security & Firewall	Password protection, IP filtering, and system hardening enabled by default.

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