

# USB to Ethernet passthrough mode

## General information

This feature is supported only by "U" series devices and SLZB-Ultima (CPU model: ESP32S3)

USB to Ethernet passthrough mode allows connecting a USB device to your coordinator USB port (directly or via a USB hub) and using such USB devices remotely over IP.

For example, a USB Z-Wave adapter can be connected and used remotely, similarly to an Ethernet-based Z-Wave coordinator.

## What devices can be connected?

1. Devices on **CP210x** chipset
2. Devices on **PL2303** chipset
3. Devices on **CH340** chipset
4. Devices on **CH341** chipset
5. Devices on **CH9102** chipset
6. Other **CDC-ACM** devices

We cannot guarantee support for all third-party CDC-ACM devices.

## How many USB devices can be connected?

If the "Use new USB driver" option is disabled - one USB device.

With the "Use new USB driver" option active, 2 USB devices can be connected, but **ONLY ON THE CONDITION THAT THEY ARE BOTH ON THE CP2102x CHIPSET!**

# How much power can the coordinator provide via USB?

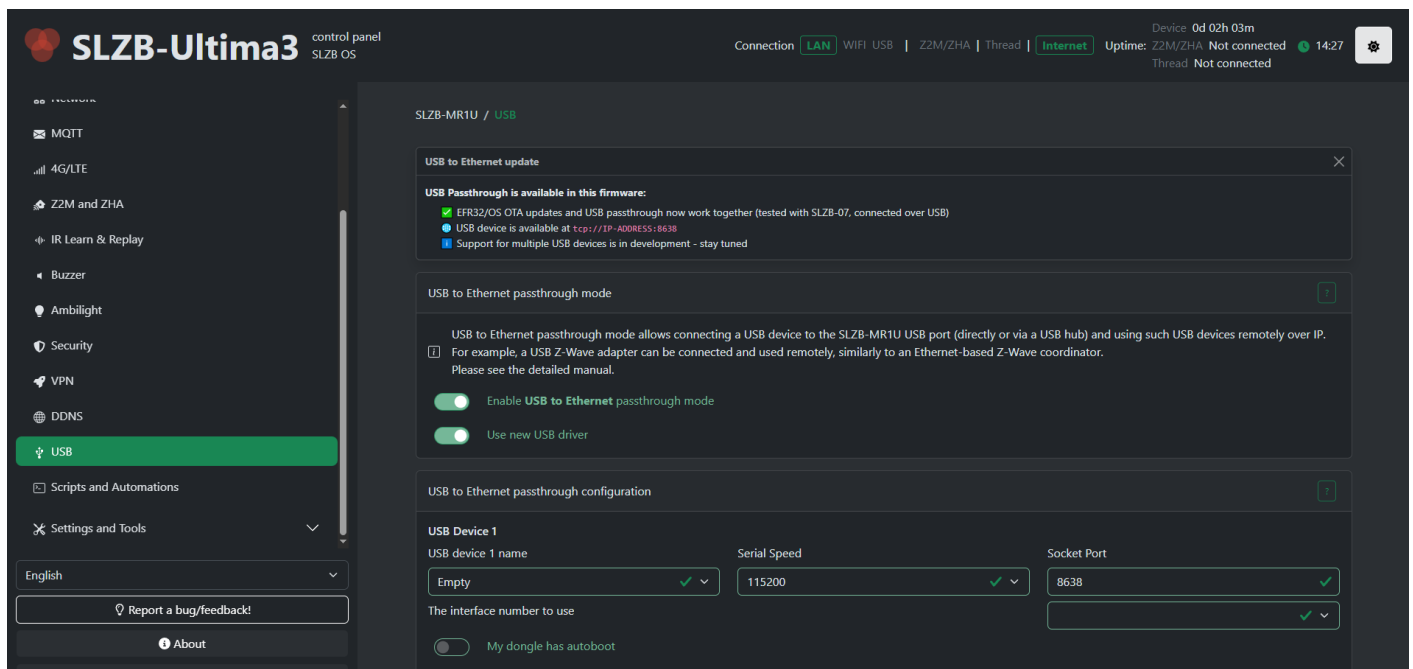
The coordinator can provide up to 1A.  
The optimal current is 500mA.

If you are using a **powered** USB hub, please make sure that PoE is disabled!  
It is **forbidden** to use **PoE** and a **powered** USB hub at the **same** time!

## USB to Ethernet passthrough setup

### 1. Mode select

Open the "USB" page and activate "Enable USB to Ethernet passthrough mode" and "Use new USB driver"



The screenshot shows the SLZB-Ultima3 control panel interface. The left sidebar contains a menu with options like MQTT, 4G/LTE, Z2M and ZHA, IR Learn & Replay, Buzzer, Ambilight, Security, VPN, DDNS, USB (highlighted), Scripts and Automations, and Settings and Tools. The main content area is titled "SLZB-MR1U / USB" and contains several sections:

- USB to Ethernet update:** A notification box stating "USB Passthrough is available in this firmware:" with three bullet points: "EFR32/OS OTA updates and USB passthrough now work together (tested with SLZB-07, connected over USB)", "USB device is available at tcp://IP-ADDRESS:8638", and "Support for multiple USB devices is in development - stay tuned".
- USB to Ethernet passthrough mode:** A section with a help icon and a paragraph explaining the mode. Below it are two toggle switches: "Enable USB to Ethernet passthrough mode" (checked) and "Use new USB driver" (checked).
- USB to Ethernet passthrough configuration:** A section with a help icon and a sub-section "USB Device 1" containing three dropdown menus: "USB device 1 name" (set to "Empty"), "Serial Speed" (set to "115200"), and "Socket Port" (set to "8638"). Below these is a field for "The interface number to use" and a checkbox "My dongle has autoboot" (unchecked).

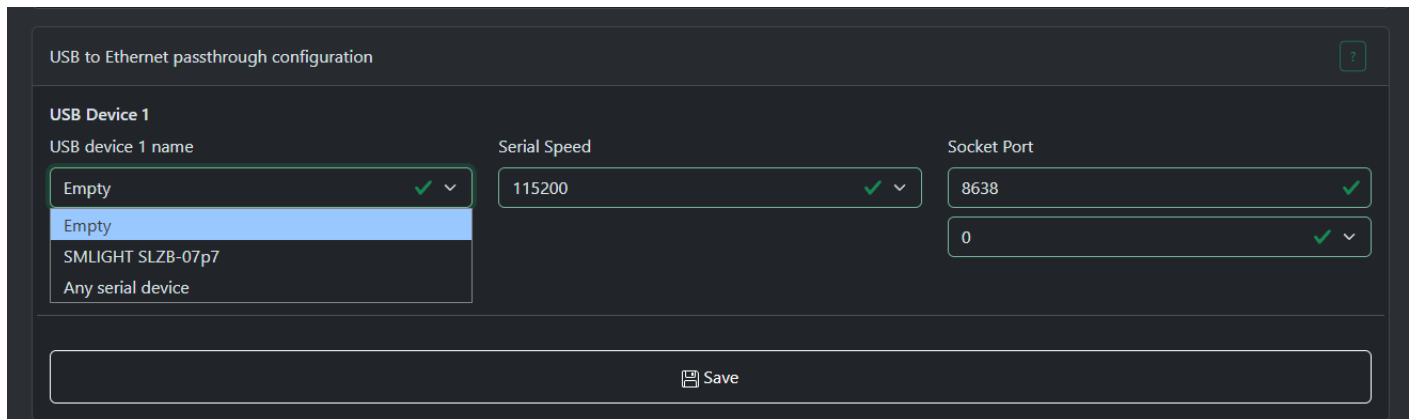
We recommend using the "Use new USB driver" option as the new driver provides greater stability and a wider list of supported USB devices.

**The old driver will be removed in future updates!**

## 2. Connect your USB device and reboot your coordinator

## 3. Select your USB device

Select your USB device from the list.



USB to Ethernet passthrough configuration

**USB Device 1**

USB device 1 name: Empty ✓

Serial Speed: 115200 ✓

Socket Port: 8638 ✓

0 ✓

Save

"Empty" - passthrough server disabled.

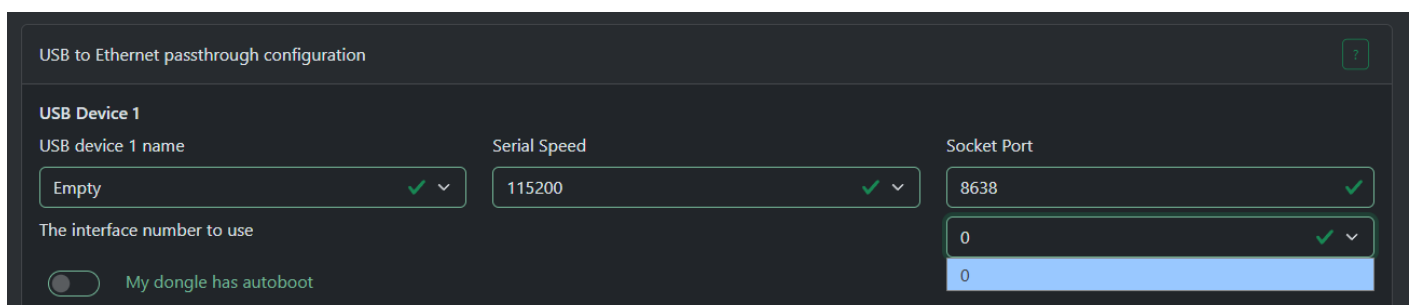
"Any serial device" - the system will select the first device found and try to open interface 0.

## 4. Set the serial speed

The most common setting is 115200.

The serial speed depends on the firmware of your dongle. If you don't know what to choose, please contact the support service of the dongle manufacturer.

## 5. Choose an interface



USB to Ethernet passthrough configuration

**USB Device 1**

USB device 1 name: Empty ✓

Serial Speed: 115200 ✓

Socket Port: 8638 ✓

0 ✓

0

My dongle has autboot

Most USB devices will only have one interface - interface 0.

But some devices may have several: for example one for `firmware update/debug` and another for `communication`.

If your device has multiple interfaces then you will have to try them all until you find correct one.

For **ZWA-2** you need to select interface **1**

## 6. About autoboot

Some dongles have an autoboot circuit that puts the radio module into bootloader mode using the DTR/RTS lines, for example SLZB-07p7/p10.

For such a dongle to work you need to select the option "My dongle has autoboot".

Most dongles that have autoboot use the **CH340** or **CP2102x** chipsets.  
If you don't know if your dongle has autoboot, please contact the support service of the dongle manufacturer.

## 7. After setup

After you have selected all the settings, please click the "Save" button and restart the coordinator for the changes to take effect.

## 8. Host application settings

Most programs use the format `tcp://ip:port` or `socket://ip:port`, less often just `ip:port`

Examples:

```
tcp://192.168.50.196:8638
```

```
socket://192.168.50.196:8638
```

```
192.168.50.196:8638
```

If your host program has "RTS/CTS" or "Hardware flow control" settings, you should select "**disabled**"

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