# 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?

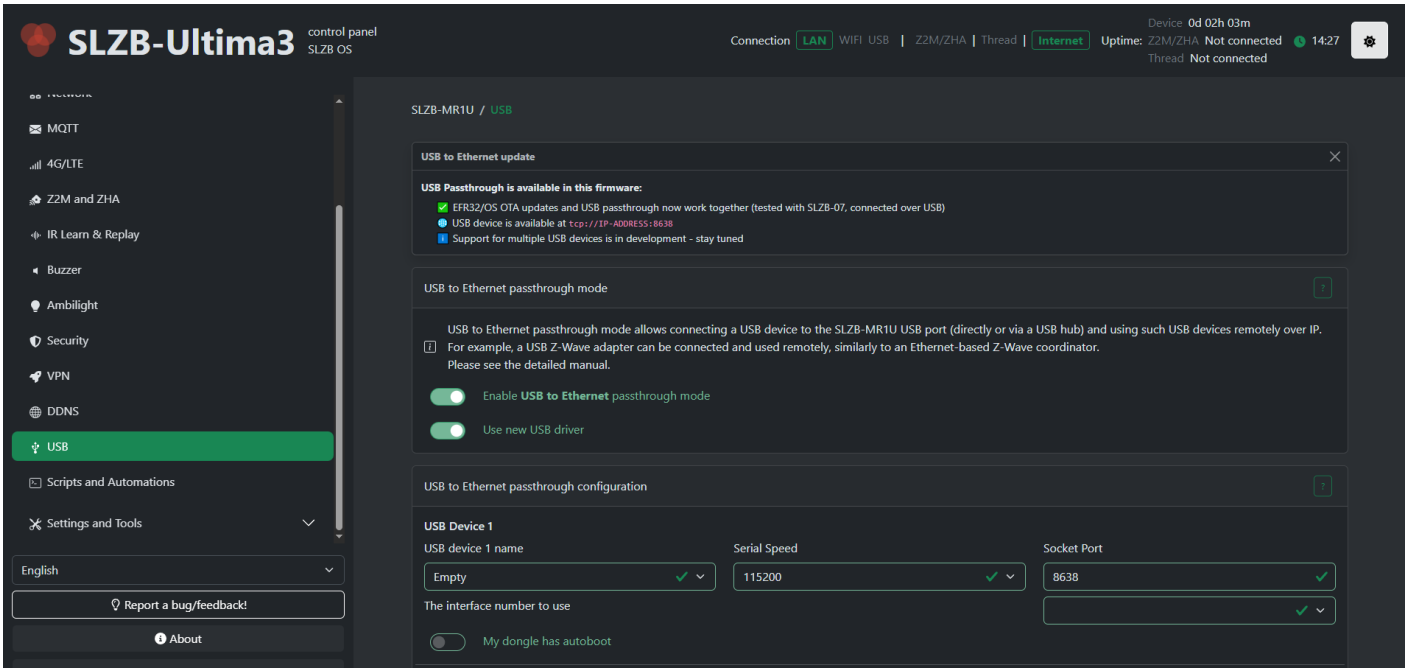
The coordinator can provide up to 1A.
The optimal current is 500mA.

> 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"

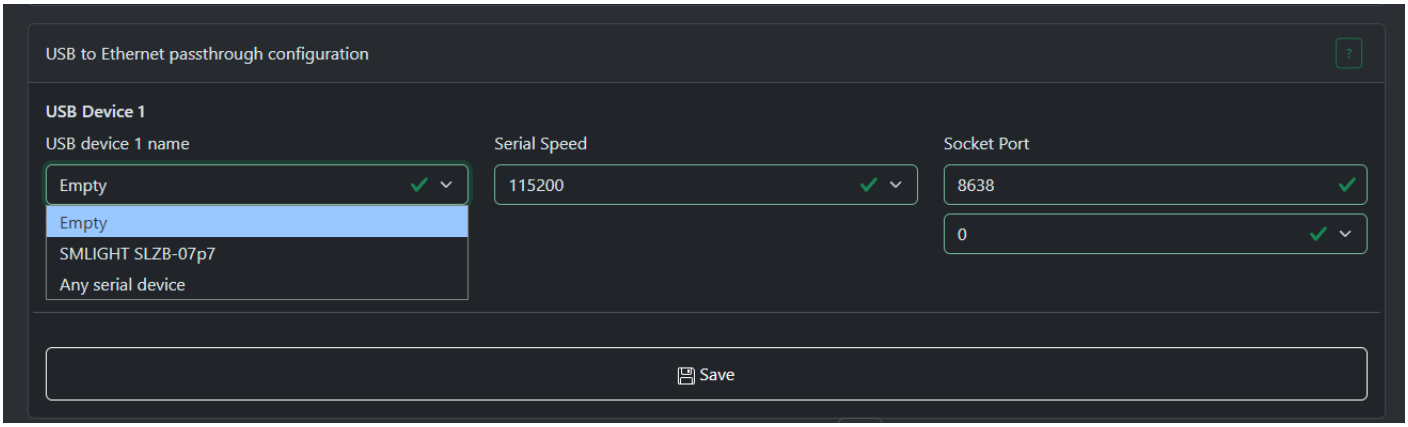



> We recommend using the "Use new USB driver" option as the new driver provides greater stability and a wider list of supported USB devices.
> **The old driver will be removed in future updates!**

# 2. Connect your USB device and reboot your coordinator

# 3. Select your USB device

Select your USB device from the list.



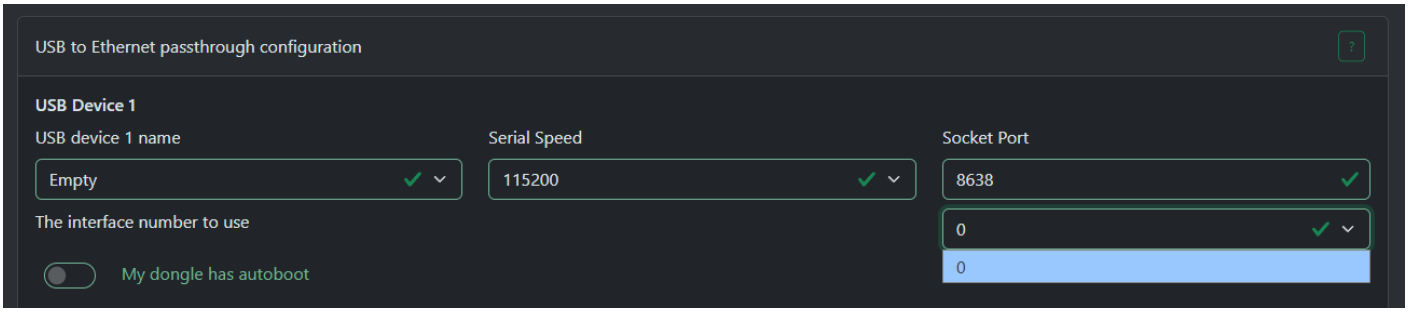

"Empty" -  passthrough server disabled.
"Any serial device" - the system will select the first device found and try to open interface 0.

# 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




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`.

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> 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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