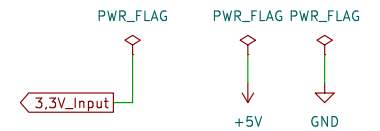
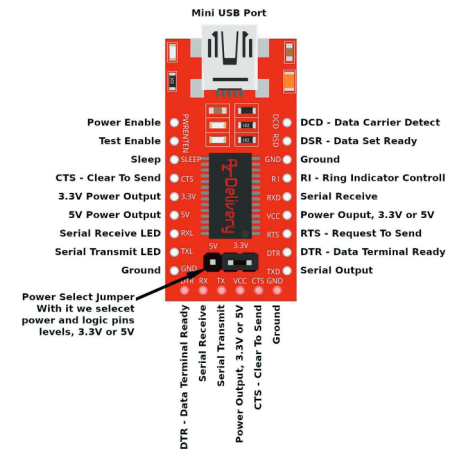
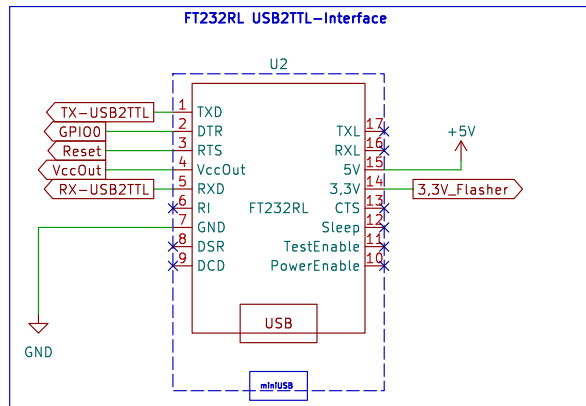
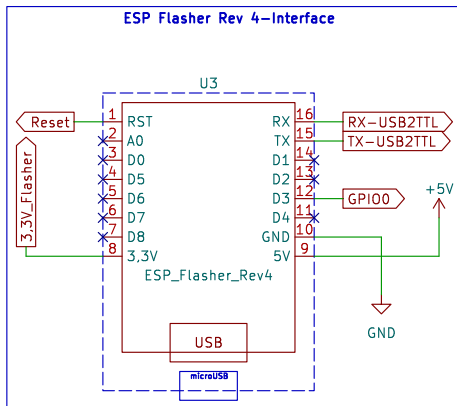
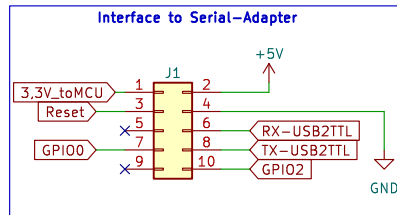
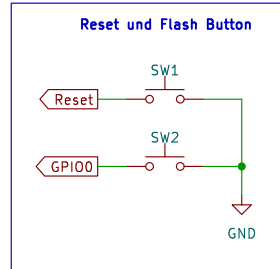
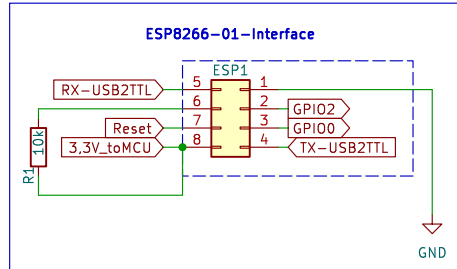
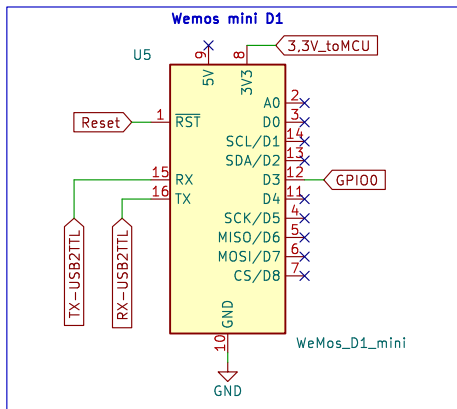


## Minimal Hardware Setup for Bootloading and Usage

PIN	Resistor	Serial Adapter
VCC		VCC (3.3V)
GND		GND
TX or GPIO2*		RX
RX		TX
GPIO0	PullUp	DTR
Reset*	PullDown	RTS
GPIO15*	PullDown	
CH_PD	PullUp	

- Note
- GPIO15 is also named MTDO
- Reset is also named RSBT or REST (adding PullUp improves the stability of the module)
- GPIO2 is alternative TX for the boot loader mode
- **Directly connecting a pin to VCC or GND is not a substitute for a PullUp or PullDown resistor, doing this can break upload management and the serial console, instability has also been noted in some cases.**

## 4. Pinout Configuration



### Häfele Services

Sheet: /  
File: ESP8266\_Flash\_Adapter.kicad\_sch

### Title: ESP8266-Flash-Adapter

Size: A4 Date: 2024-01-31  
KiCad E.D.A. 8.0.4

Rev:  
Id: 1/1