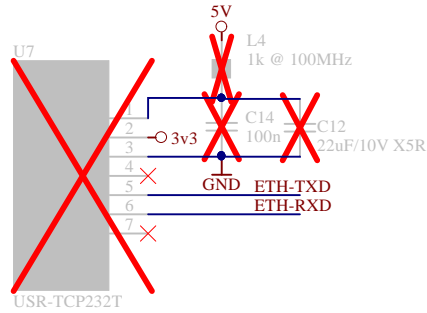
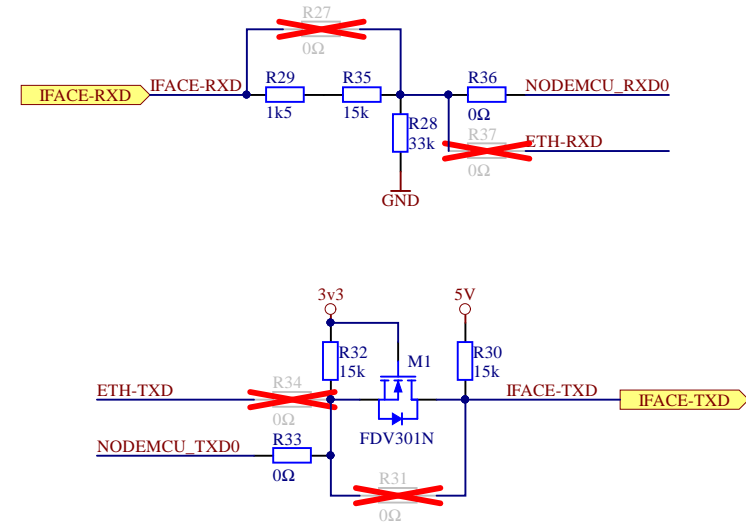


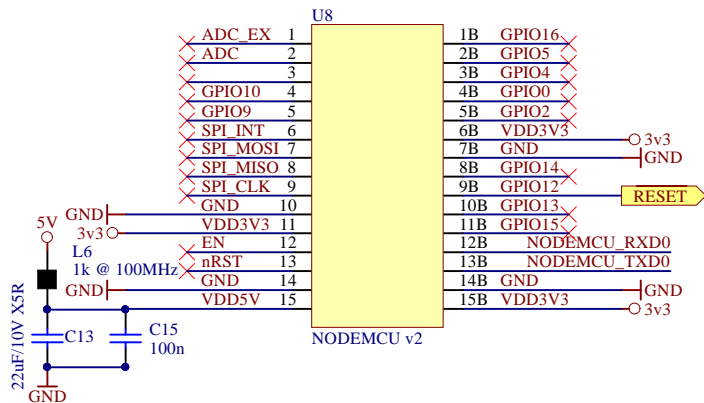
USR-TCP232T ethernet module



Optional TxD/RxD 5v <-> 3v3 level translator



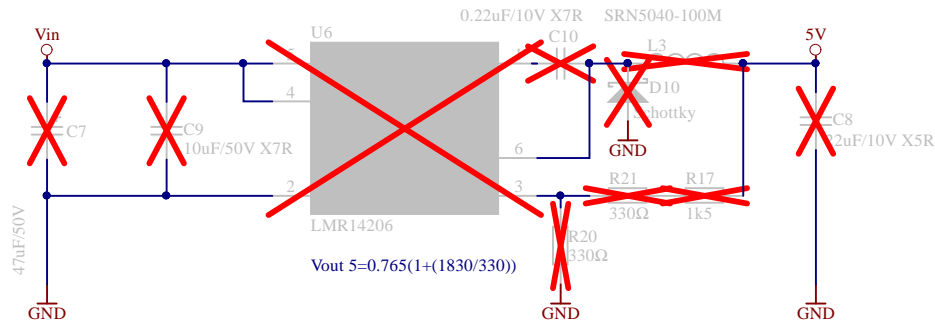
NodeMCU v2 WiFi module



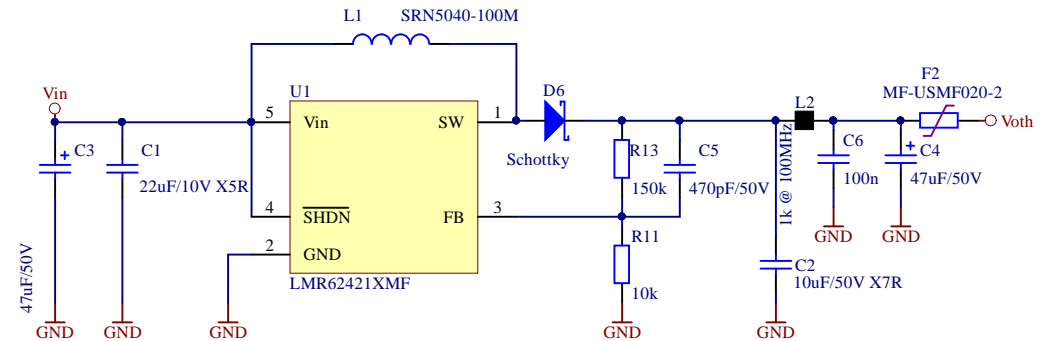
FTDI cable debug headers



15-24V Input -> 5v buck converter



5-12V Input -> 20v (for OpenTherm) boost converter



Input power options

Power options:

Option 1: 5V input on connector or NodeMCU usb connector

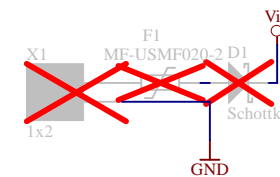
Needed: Boost converter for 20V OpenTherm voltage.

Option 2: 15-24V input on connector (for example from boiler)

Needed: Buck converter for 5V, input voltage is used for OpenTherm voltage

Option 3: 6-12V input on connector

Needed: Boost converter for 20V OpenTherm voltage
+ Buck converter for 5V electronics voltage.



Option 1 (not nodeMCU)



Option 2

