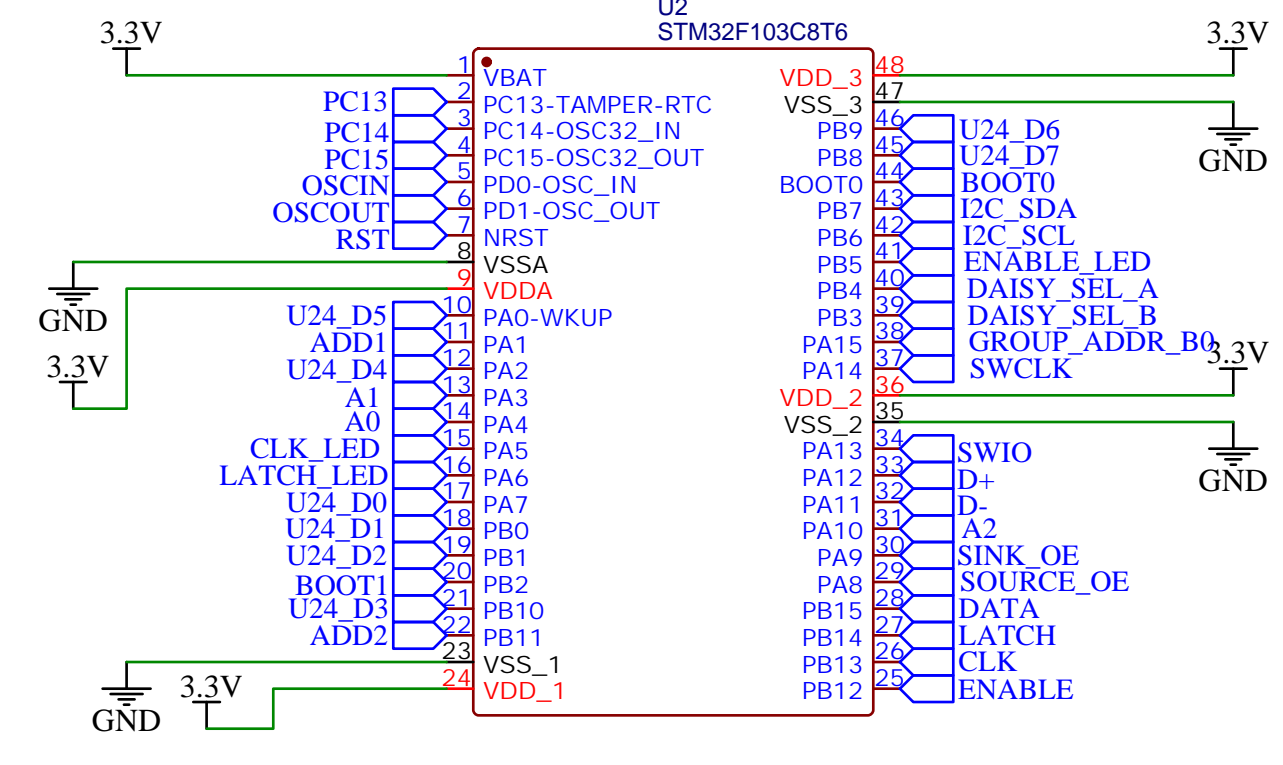
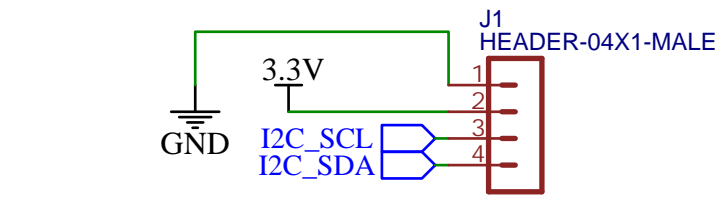
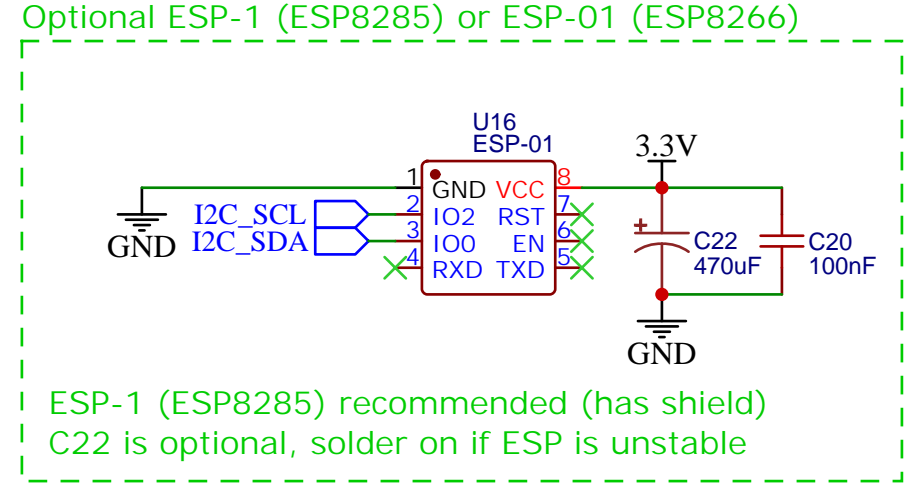
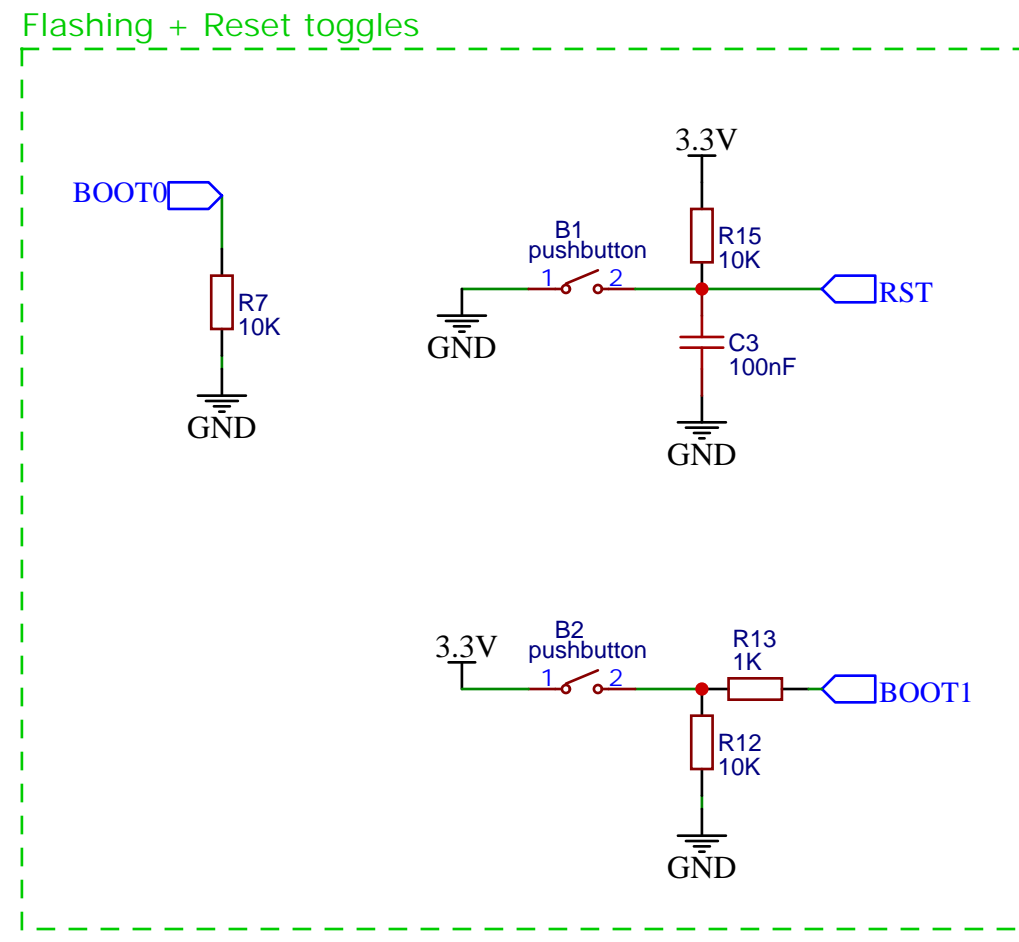
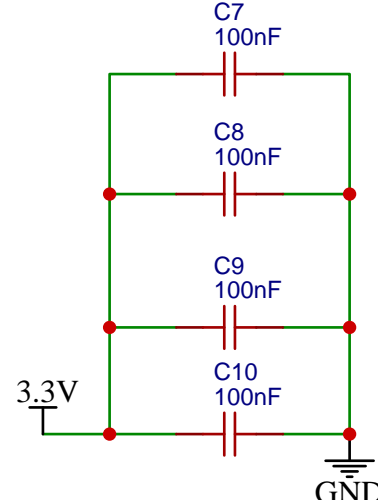


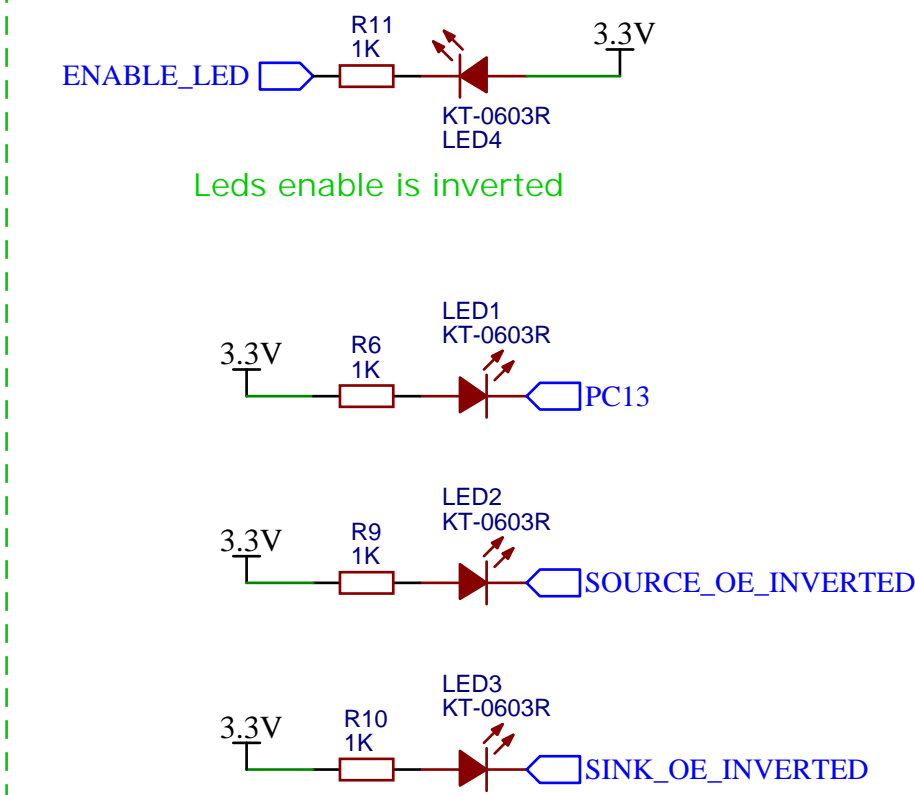
Everything above can be ommited if USB is not used



STM32F103C6T6 can also be used but without USB functionality and some features disabled (won't fit in flash memory)
STM32F100 series can be also used but doesn't support USB

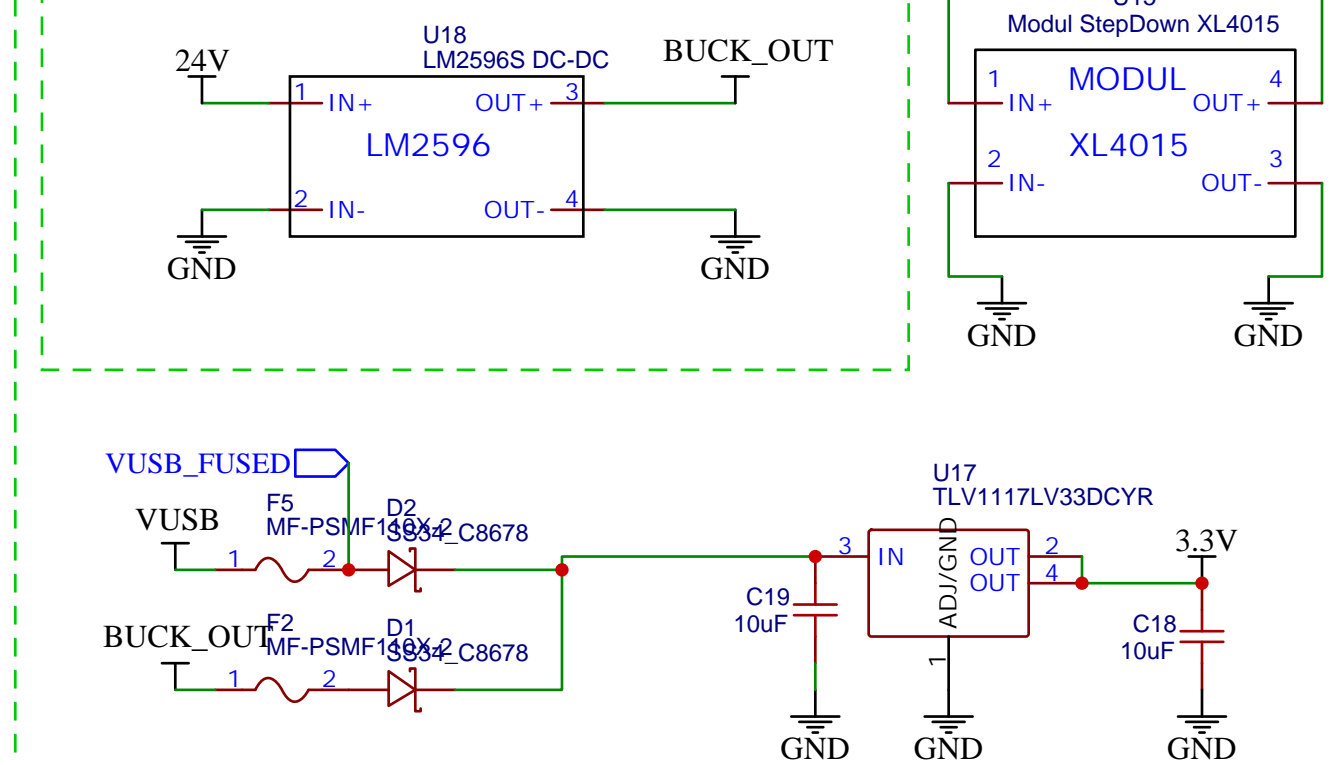


Optional ESP-1 (ESP8285) or ESP-01 (ESP8266)



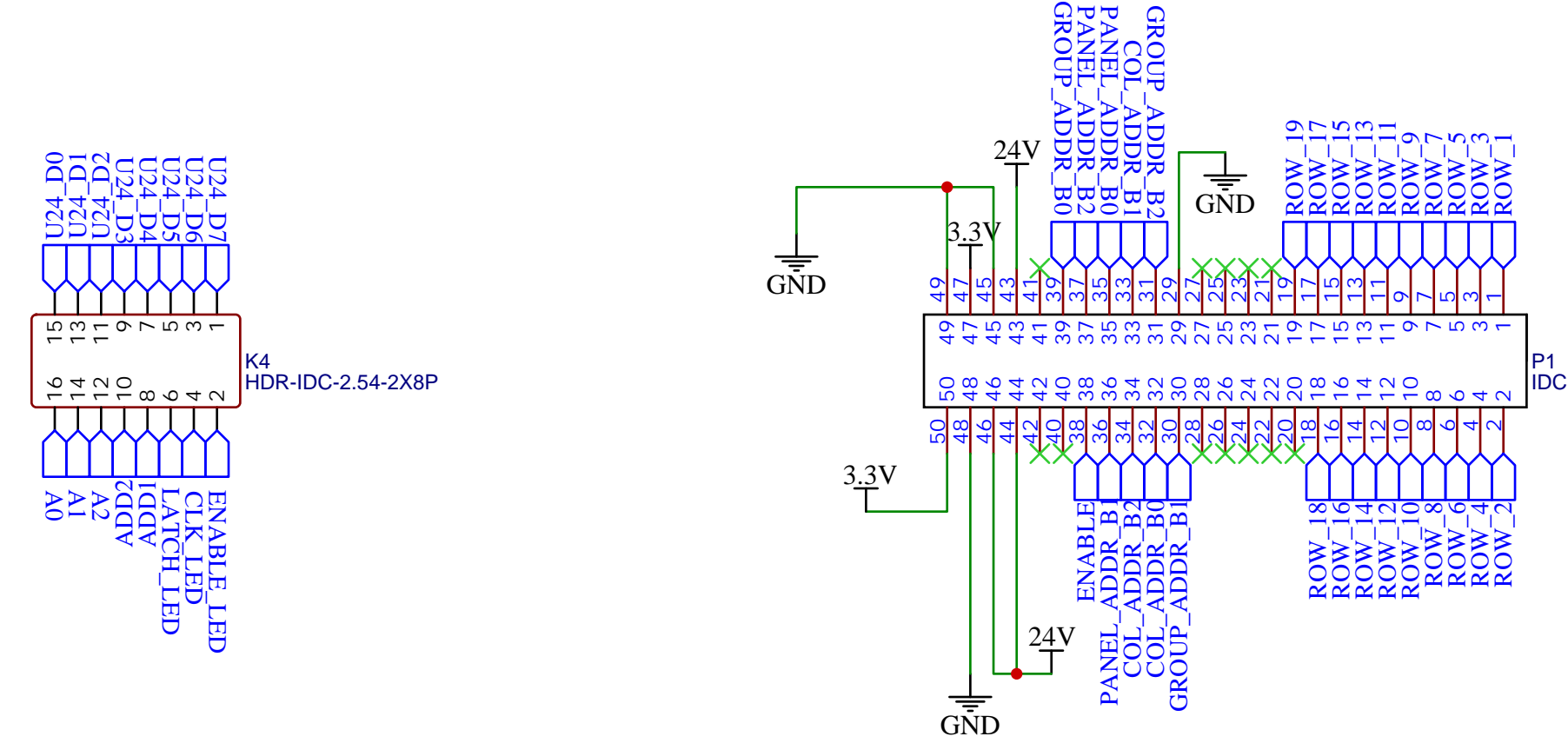
3.3V Regulation

24V -> 3.3V BUCK CONVERTER



Install F2 AFTER (!!!!) you set buck converter output to 5V
Different AMS1117 like regulator can fit but mind stability with ceramic caps
solder the buck converters AFTER you test and make sure that the USB connector works correctly.
You can use either XL4015 or LM2596 step down modules from allexpress

LED and FLIP-DOT connectors



Alternatives: C429960 and C601945
LCSC C358753 and C90444 can be also used if you're into fancy connectors. No real advantage using them though.

Number of displays selector

