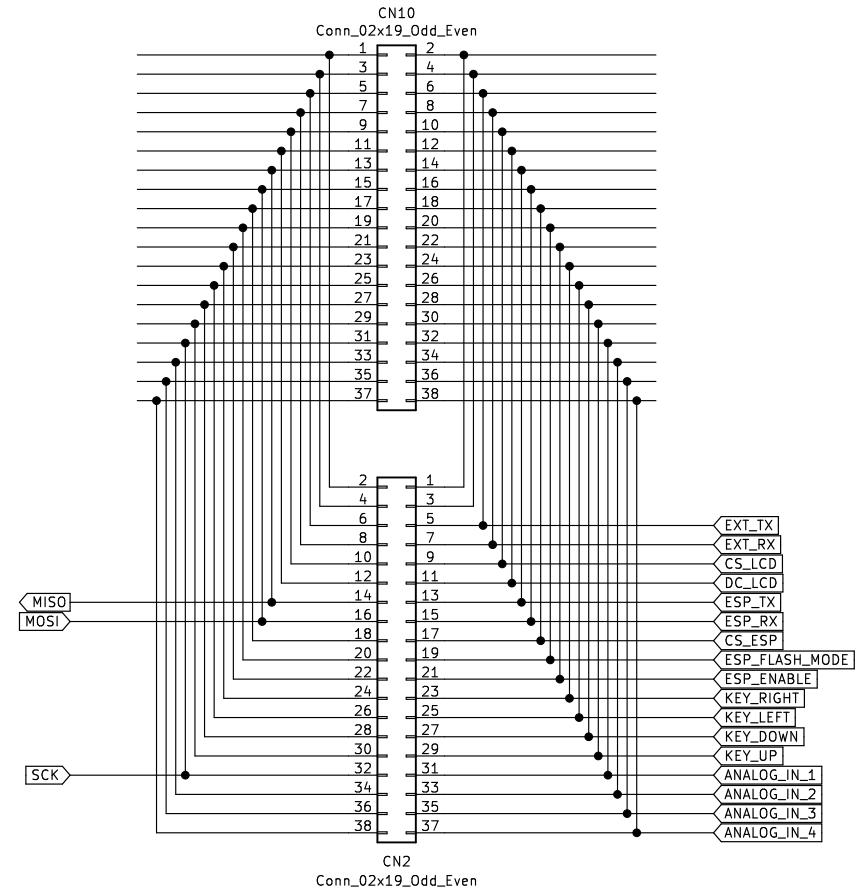
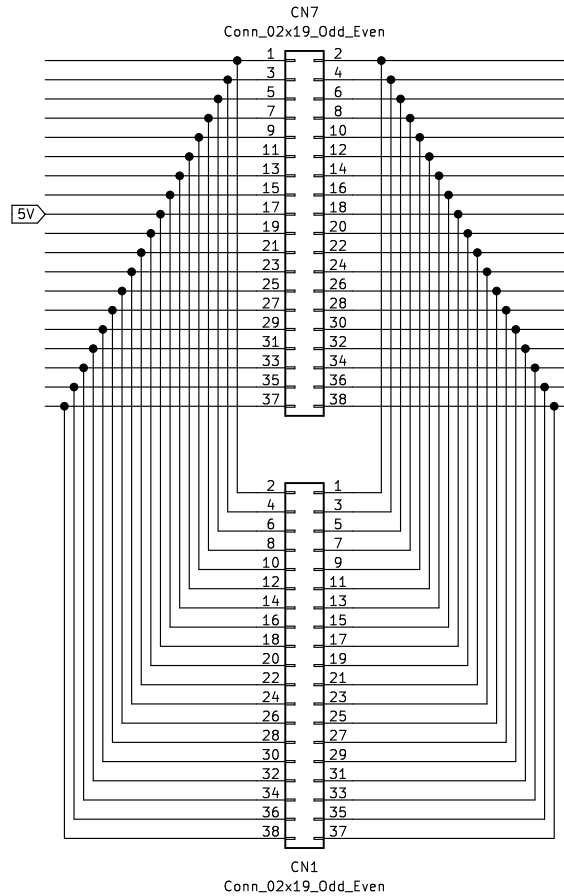
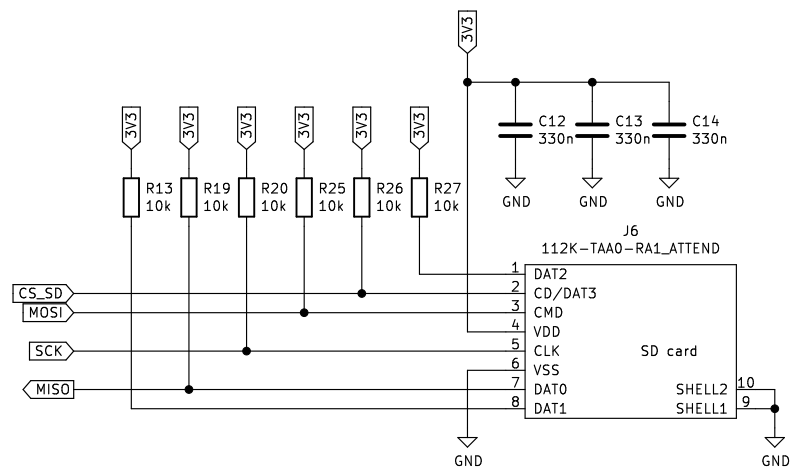


Note all is done via nucleo32 board connected on the bottom of the PCB.
On the top of the PCB there are connectors to stack new shield.





NOTE:

- 1/ ESP acceptable supply voltage: 3V–3V6
- 2/ Nucleo acceptable supply voltage: 5V
- 3/ ST7735S acceptable supply voltage: 3V3

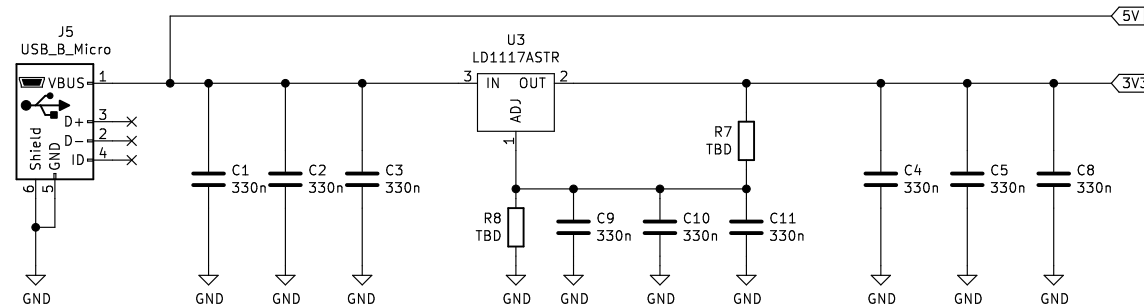
The device will be powered from power USB (no USB communication, just used as power supply).

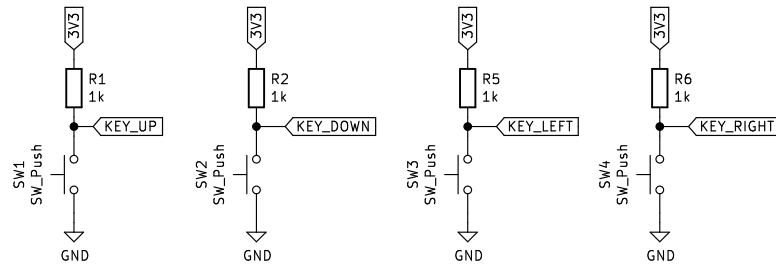
Nucleo will be alimented directly zith USB 5V.

ESP and ST7735S will be alimented with 3V3

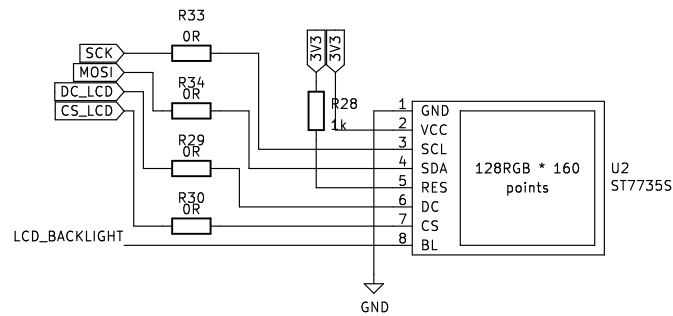
Connecting nucleo to external power supply:

<https://pitinker.wordpress.com/2016/05/22/battery-powered-mbed-st-nucleo-f411re/>

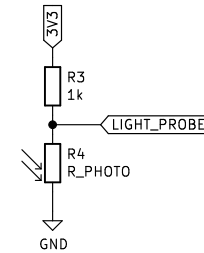




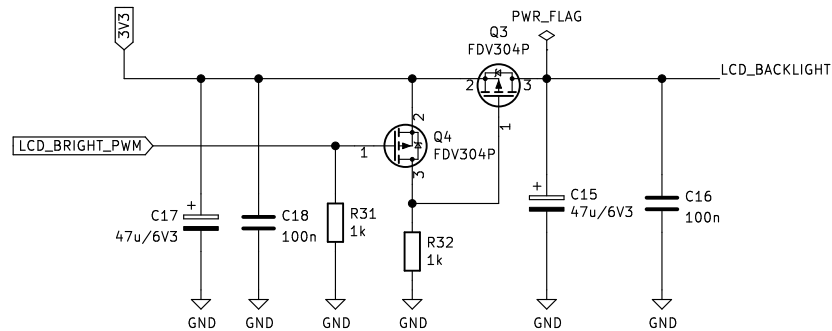
NOTE: key debouncing will be done in firmware.



NOTE: displays from difrent manufacturrers have different pinout.



NOTE: photoresistor is used to adjoust brightness of the LCD.



NOTE:

- 1/ LEDs connected to ESP are only for debugging of ESP during development. When board will be used, LCD will act as a medium for communication with user.
- 2/ ESP can be programmed via nucleo or externally via J8-J10 connectors.
- 3/ ESP can be electrically powered down via nucleo.

