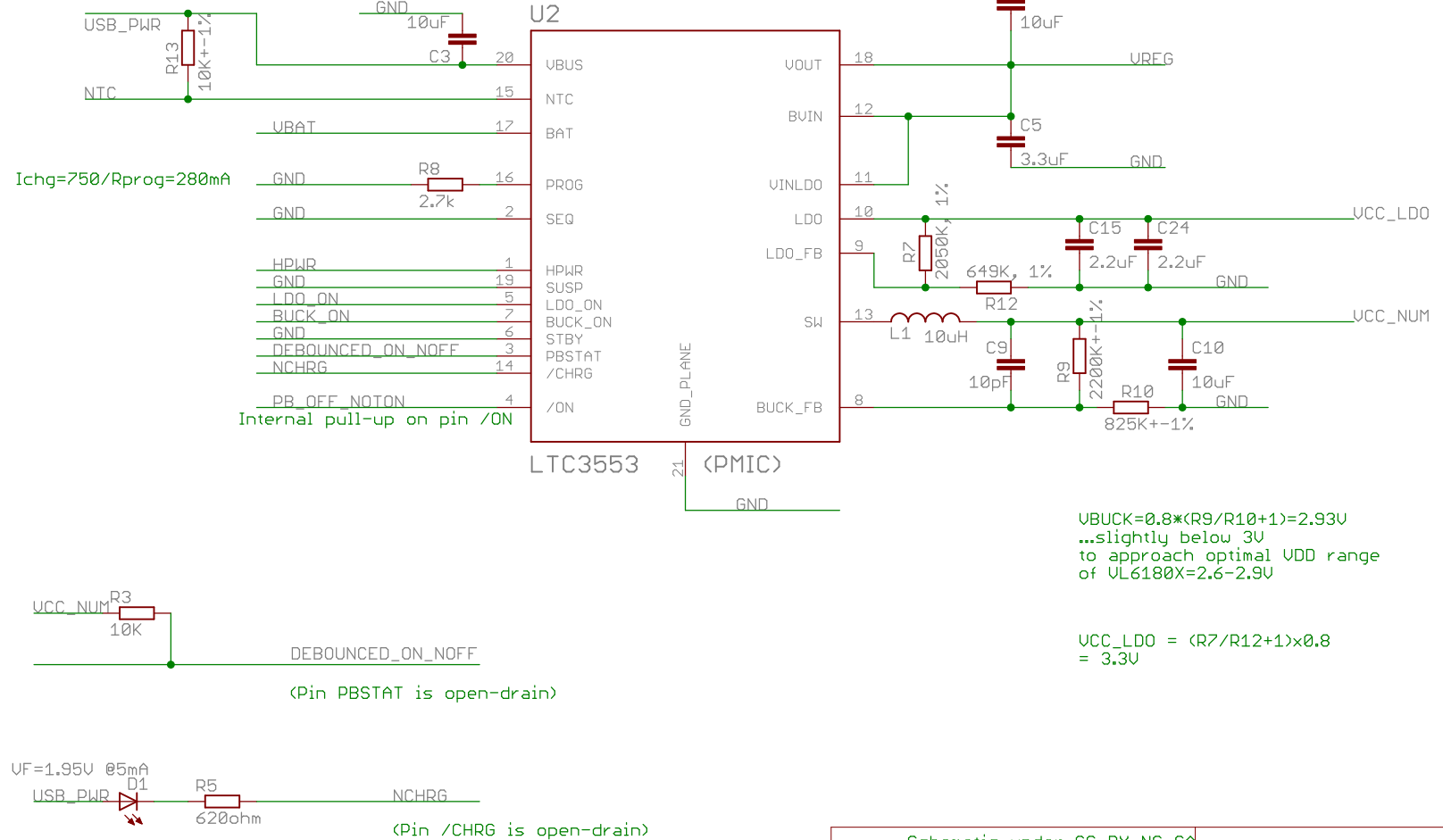


NTC connects to battery thermistor. R13 must match thermistor characteristics.



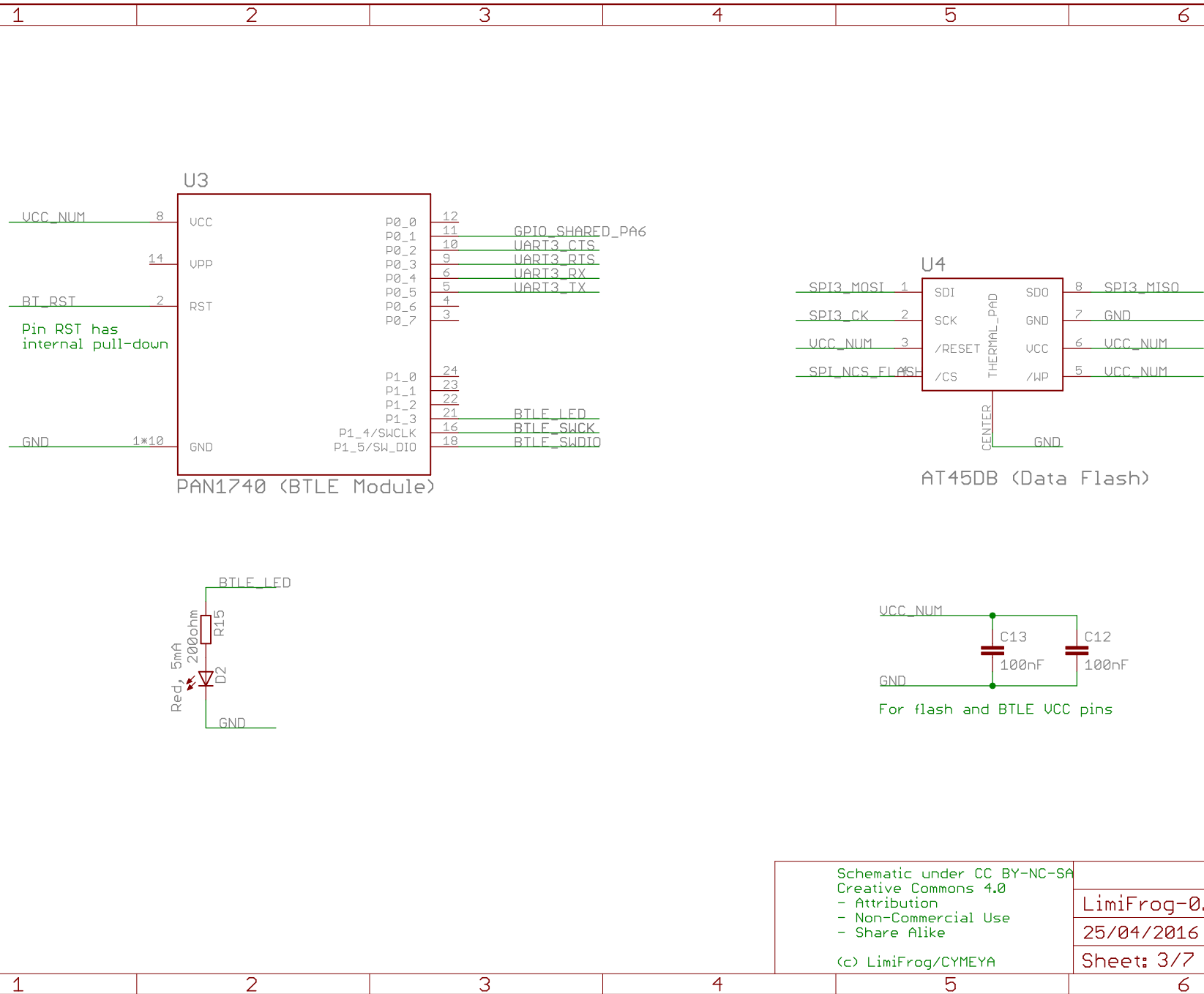
Schematic under CC BY-NC-SA  
Creative Commons 4.0  
- Attribution  
- Non-Commercial Use  
- Share Alike

(c) LimiFrog/CYMEYA

LimiFrog-0.2a\_Doc

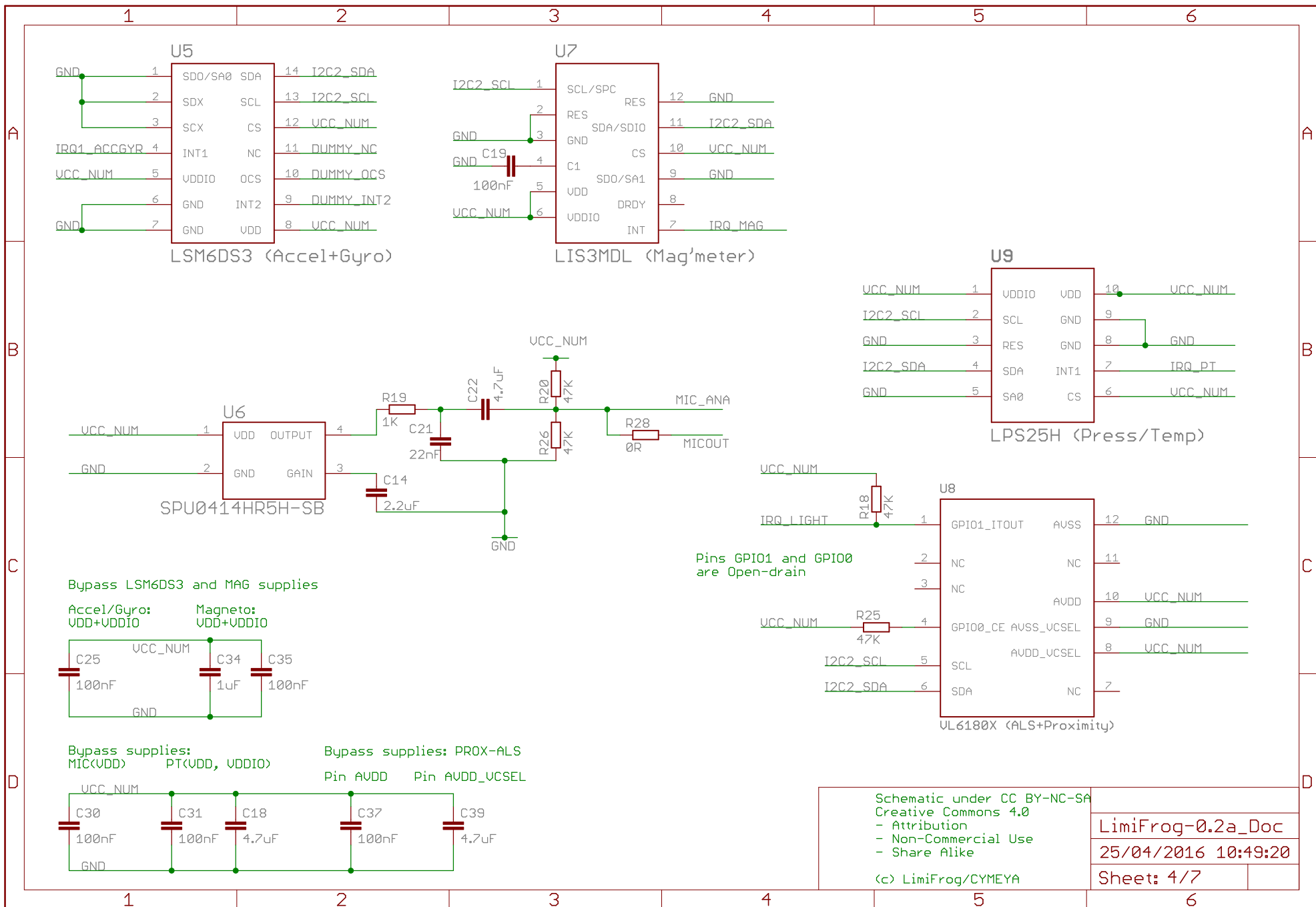
25/04/2016 10:49:20

Sheet: 2/7

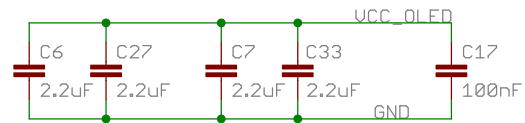


Schematic under CC BY-NC-SA  
Creative Commons 4.0  
- Attribution  
- Non-Commercial Use  
- Share Alike  
(c) LimiFrog/CYMEYA

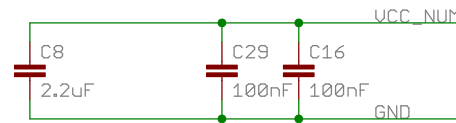
LimiFrog-0.2a\_Doc  
25/04/2016 10:49:20  
Sheet: 3/7



Pay attention to reduction of actual capacitance of small caps like 0402 under DC bias (<3V and ~14V here)



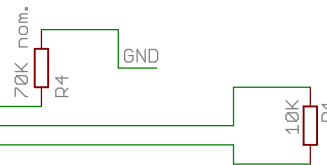
2x 2.2uF on each VDDH input



Bypass for pins VDD and VDDIO

### CONN1

NC1	1	
USDH1	2	GND
VDDH1	3	UCC_OLED
VSSH1	4	GND
IREF	5	IREF
OSCA2	6	OSCA2
OSCA1	7	OSCA1
VDDIO	8	UCC_NUM
USYNCO	9	
USYNC	10	GND
HSYNC	11	GND
COTCLK	12	GND
ENABLE	13	GND
CPU	14	GND
PS	15	GND
D17	16	SPI1_CK
D16	17	SPI1_MOSI
D15	18	
D14	19	GND
D13	20	GND
D12	21	GND
D11	22	GND
D10	23	GND
D9	24	GND
RS	25	OLED_RS
CSB	26	OLED_CSB
RDB	27	GND
WRB	28	GND
RESETB	29	OLED_NRST
VSS	30	GND
VDD	31	UCC_NUM
VSSH2	32	GND
VDDH2	33	UCC_OLED
USDH2	34	GND
NC2	35	



### Top layer Fiducials



### Bottom layer Fiducials



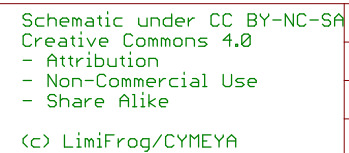
FPC connector for OLED

Schematic under CC BY-NC-SA  
Creative Commons 4.0  
- Attribution  
- Non-Commercial Use  
- Share Alike  
(c) LimiFrog/CYMEYA

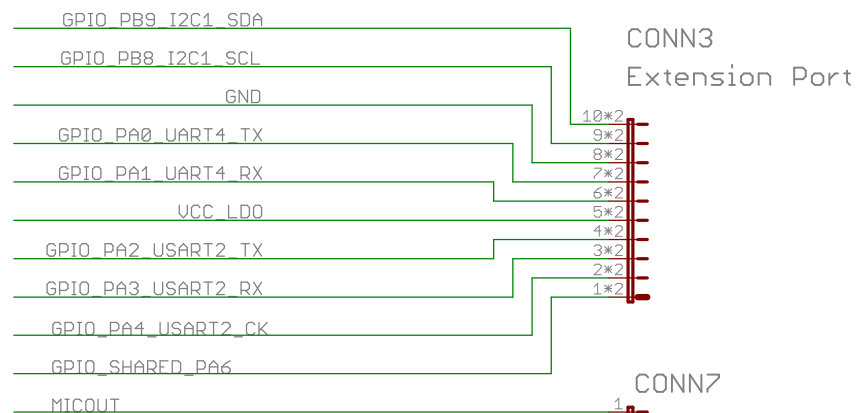
LimiFrog-0.2a\_Doc

25/04/2016 10:49:20

Sheet: 5/7

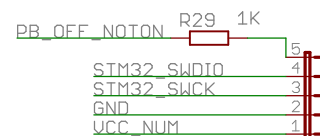


Sheet: 6/7



GPIO\_SHARED\_PA6 shared between STM32 (GPIO PA6) and BTLE (GPIO P0\_1)

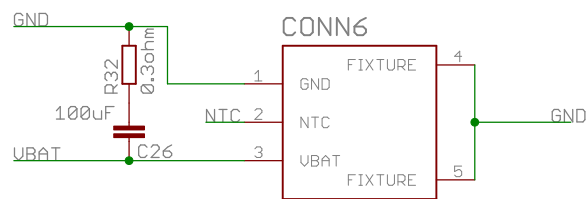
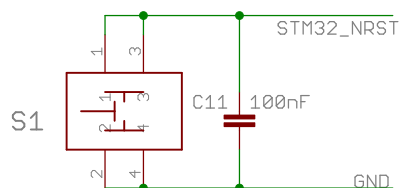
CONN2 STM32 SWD interface



CONN4

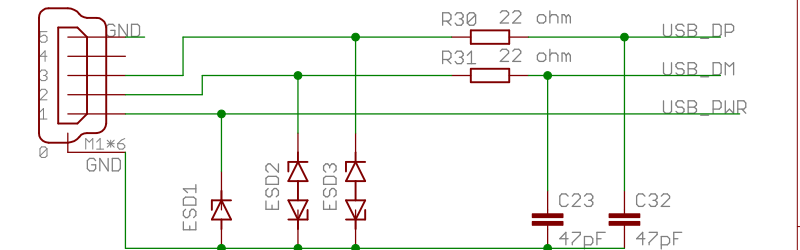
Ext On/Off + BTLE SWD i/f

Note:  
STM32 has internal pull-up 50K on reset pin



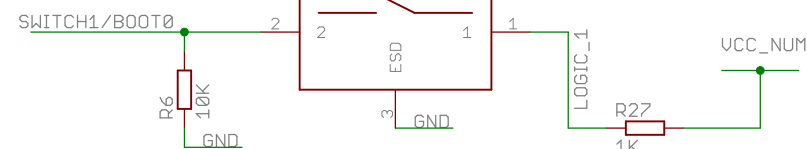
Battery Conn.

CONN5 Mid-mount micro-USB



S3

B3U-3x (side switch)



S2

B3U-3x (side switch)



Schematic under CC BY-NC-SA  
Creative Commons 4.0  
- Attribution  
- Non-Commercial Use  
- Share Alike  
(c) LimiFrog/CYMEYA

LimiFrog-0.2a\_Doc

25/04/2016 10:49:20

Sheet: 7/7