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U\_1  
1.1.3\_Interface\_board\_SWD&FLASH&IO.SchDoc

BOOT0, BOOT1, SPI2\_MOSI, SPI2\_SCK, SPI2\_MISO, SPI2\_NSS, FLASH\_HOLD, FLASH\_WP, NRST, SWCLK, SWDIO, SWO, AUX\_I/O\_1, AUX\_I/O\_2, AUX\_I/O\_3, AUX\_I/O\_4, AUX\_I/O\_5, AUX\_I/O\_6, VDD, GND

U\_1  
1.1.1\_Interface\_board MCU.SchDoc

BOOT0, BOOT1, SPI2\_MOSI, SPI2\_SCK, SPI2\_MISO, SPI2\_NSS, FLASH\_HOLD, FLASH\_WP, NRST, SWCLK, SWDIO, SWO, AUX\_I/O\_1, AUX\_I/O\_2, AUX\_I/O\_3, AUX\_I/O\_4, AUX\_I/O\_5, AUX\_I/O\_6

U\_1  
1.1.7\_Interface\_board\_GNSS.SchDoc

I2C2\_SDA, I2C2\_SCL, GPS\_UART\_RX, GPS\_UART\_TX, GPS\_ENn, GPS\_TIMEPULSE, GPS\_EXTINT, GPS\_RESETn, GPS\_SWITCH, VDD, GND

U\_1  
1.1.6\_Interface\_board\_Pressure&IMU.SchDoc

I2C2\_SDA, I2C2\_SCL, UART2\_RX, UART2\_TX, IMU\_ENn, IMU\_INT0, DIF\_P\_SENS\_ENn, ABS\_P\_SENS\_ENn, VDD, GND

USB\_DM, USB\_DP, RS232\_1\_TX, RS232\_1\_RX, XBEE\_UART\_RTS, XBEE\_UART\_DIN, XBEE\_UART\_DOUT, XBEE\_RSSI, XBEE\_RESET, XBEE\_UART\_CTS

RS232\_3\_TX, RS232\_3\_RX

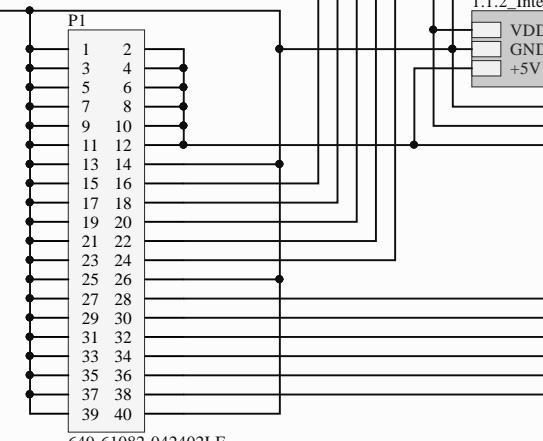
U\_1  
1.1.4\_Interface\_board\_USB&XBee&RS232.SchDoc

USB\_DM, USB\_DP, RS232\_1\_RX, XBEE\_UART\_RTS, XBEE\_UART\_DIN, XBEE\_UART\_DOUT, XBEE\_RSSI, XBEE\_RESET, XBEE\_UART\_CTS, RS232\_3\_RX, VDD, GND, +5V

SERVO\_1, SERVO\_2, SERVO\_3, SERVO\_4, SERVO\_5, SERVO\_6, LED\_1, LED\_2, LED\_3

U\_1  
1.1.5\_Interface\_board\_Servos.SchDoc

SERVO\_1, SERVO\_2, SERVO\_3, SERVO\_4, SERVO\_5, SERVO\_6, SERVO\_1\_5V, SERVO\_2\_5V, SERVO\_3\_5V, SERVO\_4\_5V, SERVO\_5\_5V, SERVO\_6\_5V, LED\_1, LED\_2, LED\_3

Title  
1.1.0\_Interface\_board.SchDoc

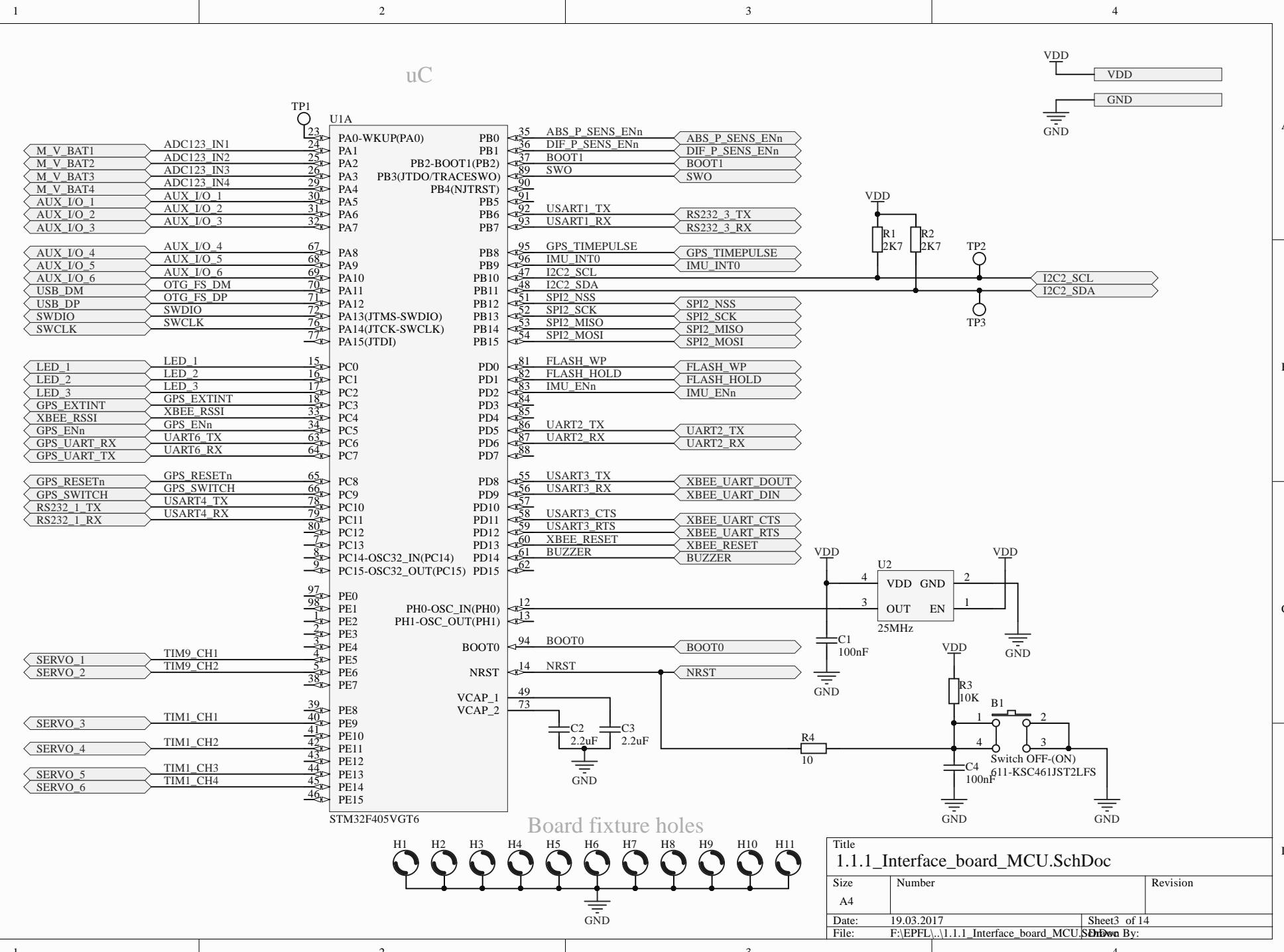
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A4		
Date: 19.03.2017	Sheet2 of 14	
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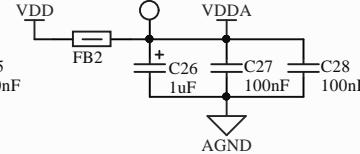
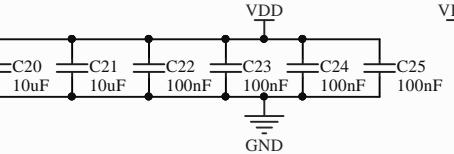
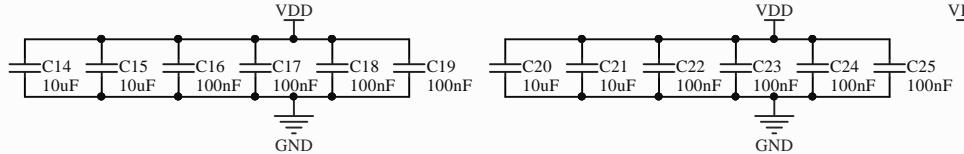
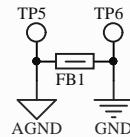
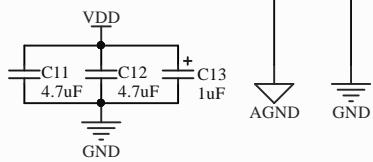
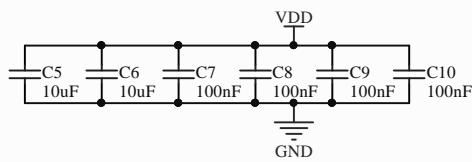
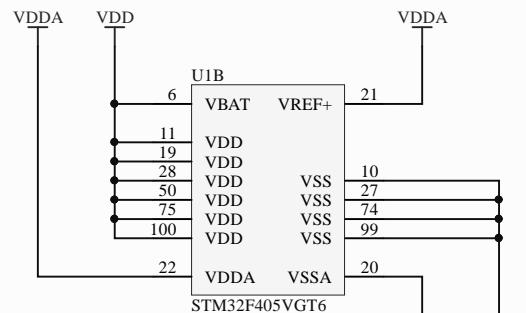
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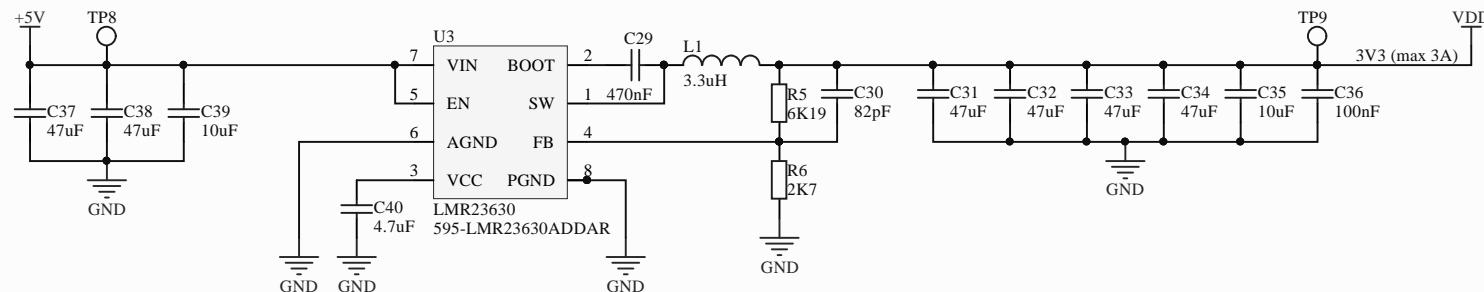
A

### STM23 power supply



C

### 5V to 3V3 buck converter



D

Title 1.1.2_Interface_board_Power_Supply.SchDoc		
Size A4	Number	Revision
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File: F:\EPFL\..\1.1.2_Interface_board_Power_Supply.SchDoc		

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B

C

D

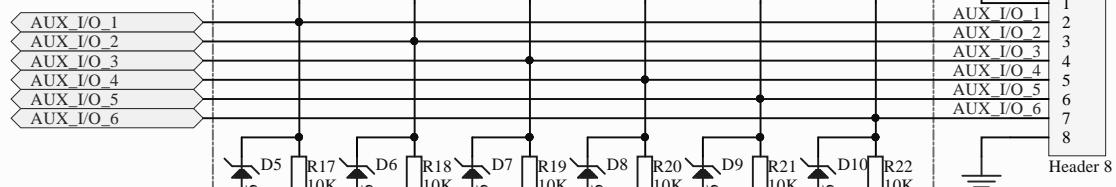
1 | 2 | 3 | 4

### A

#### Debugger

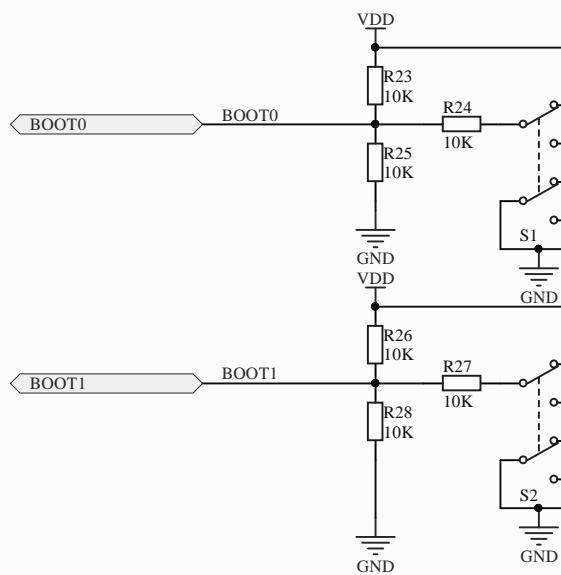
#### Additional I/Os (if needed...)

Not populated

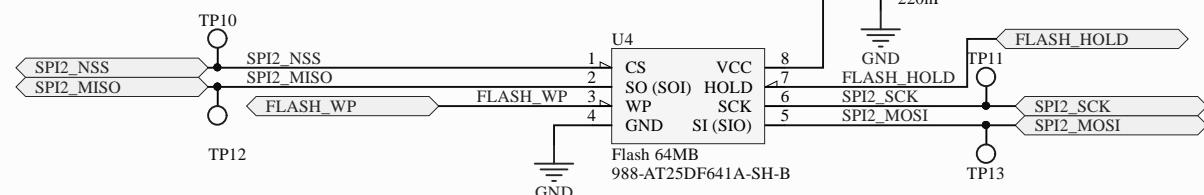


B

#### BOOT mode



#### 64MB FLASH

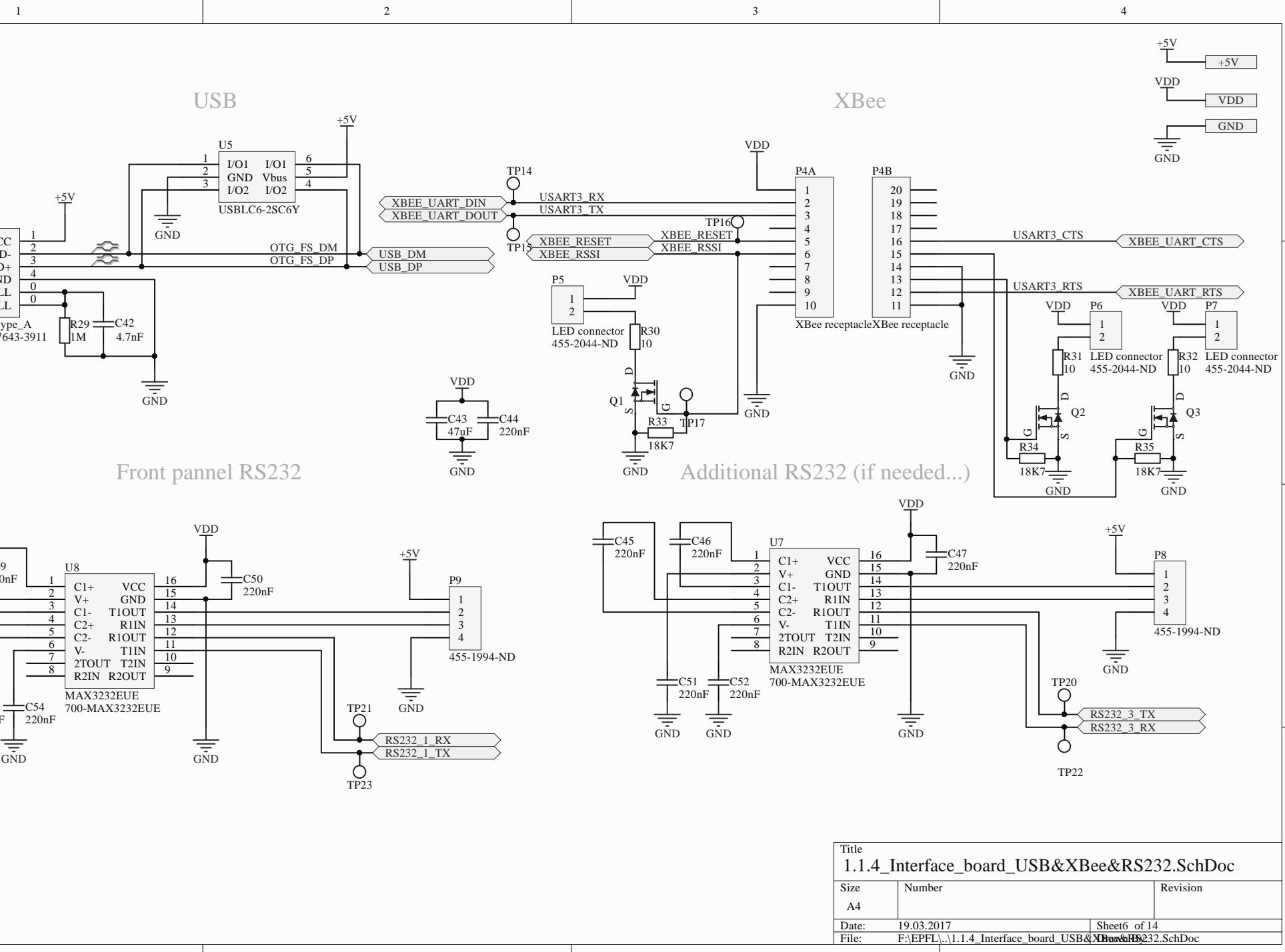


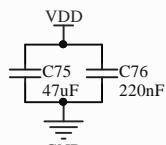
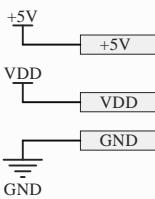
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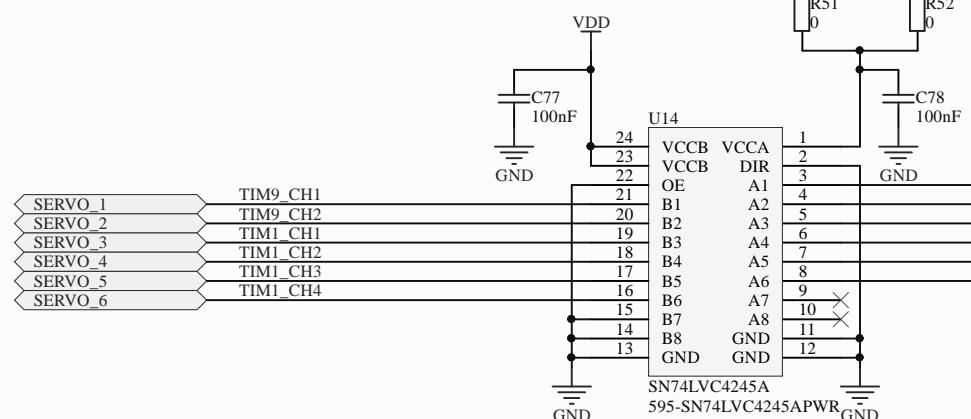
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1 | 2 | 3 | 4

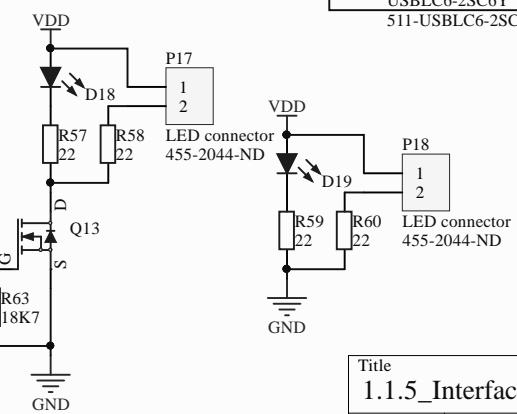
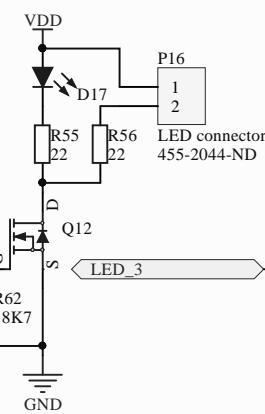
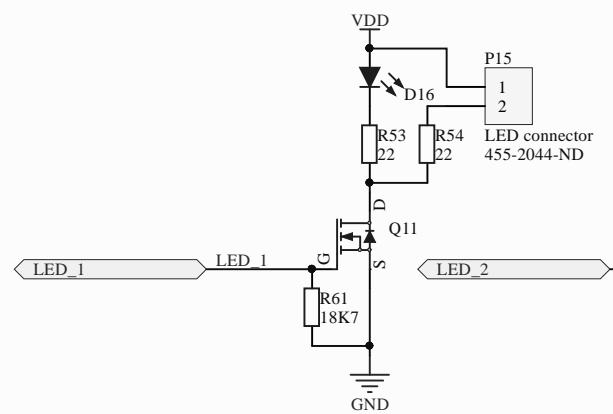




## Servos control output



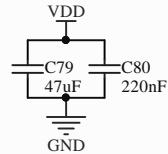
## Status LEDs



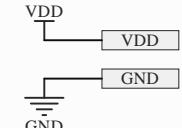
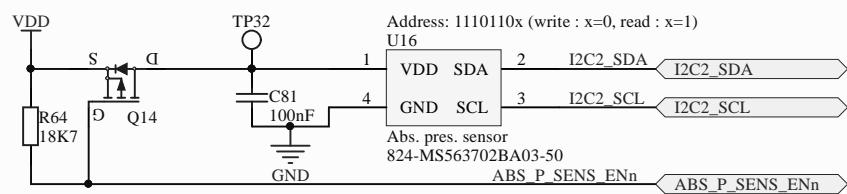
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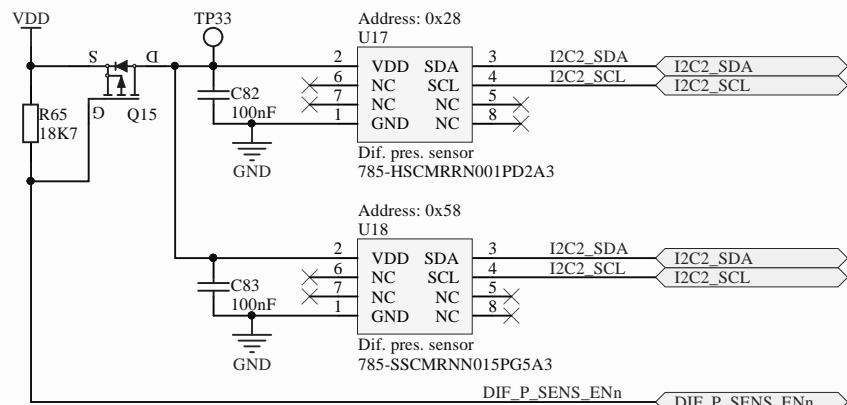


### Pressure sensors



A

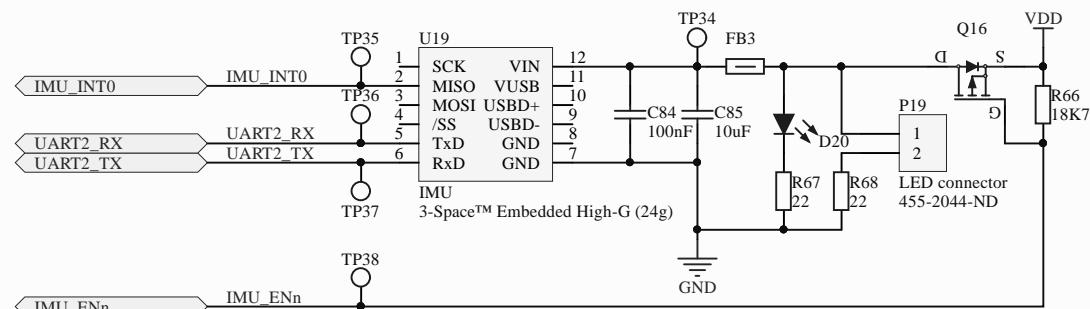
B



B

C

### IMU (24g max)

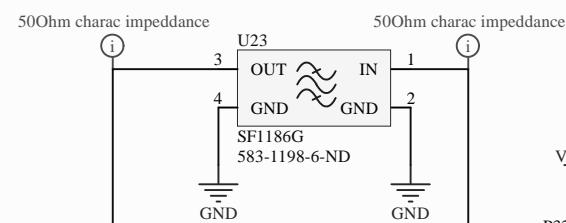
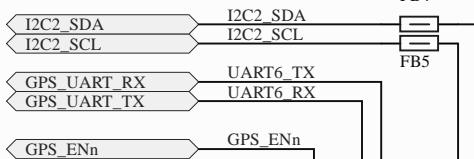


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1.1.6_Interface_board_Pressure&IMU.SchDoc		
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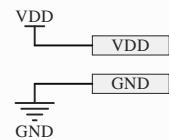
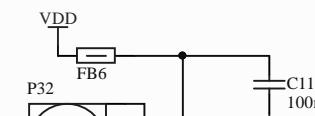
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1 2 3 4

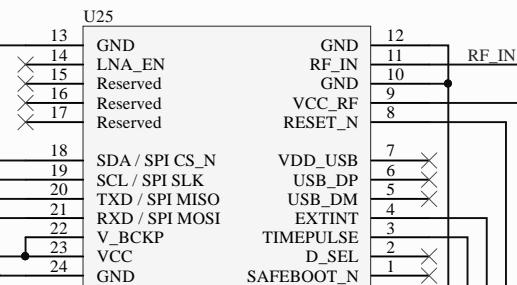
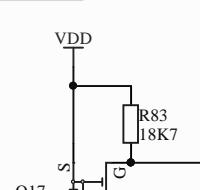
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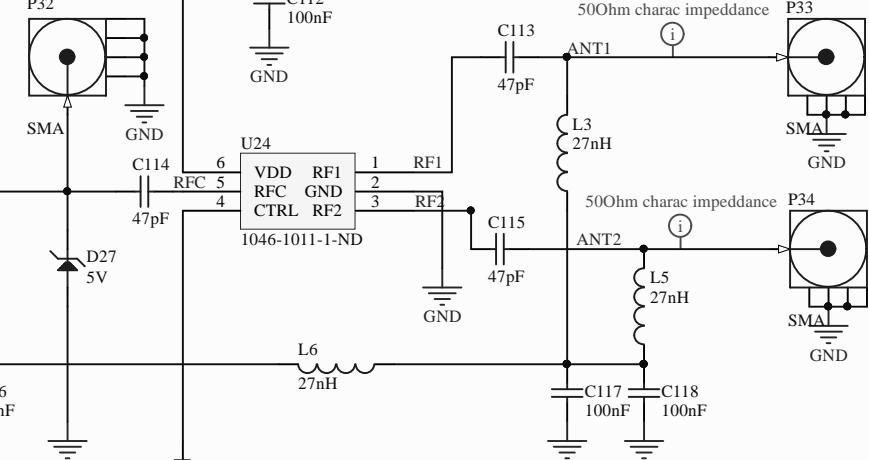
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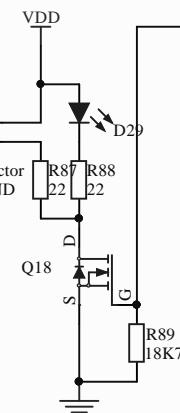
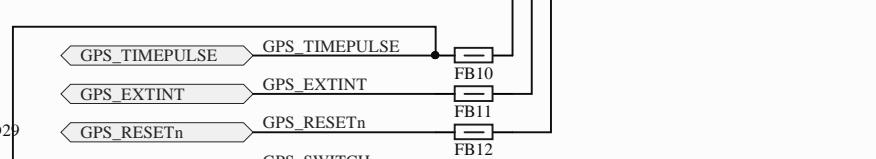
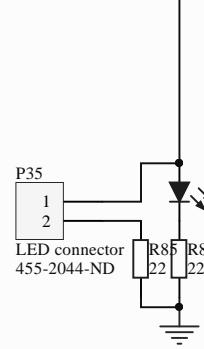
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GNSS



A



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Title 1.1.7_Interface_board_GNSS.SchDoc		
Size A4	Number	Revision
Date: 19.03.2017	Sheet9 of 14	
File: F:\EPFL\..\1.1.7_Interface_board_GNSS.SchDoc		By:

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