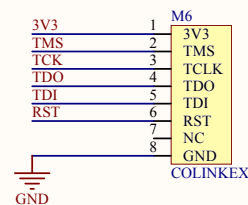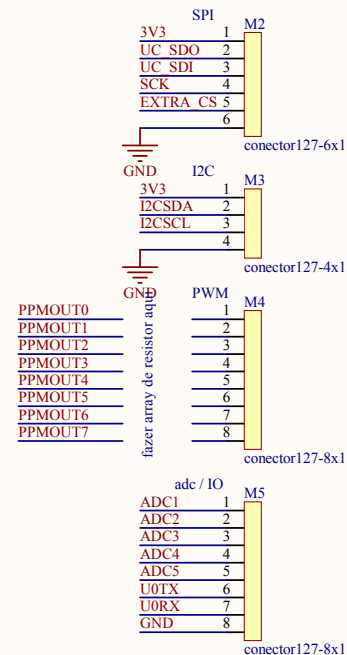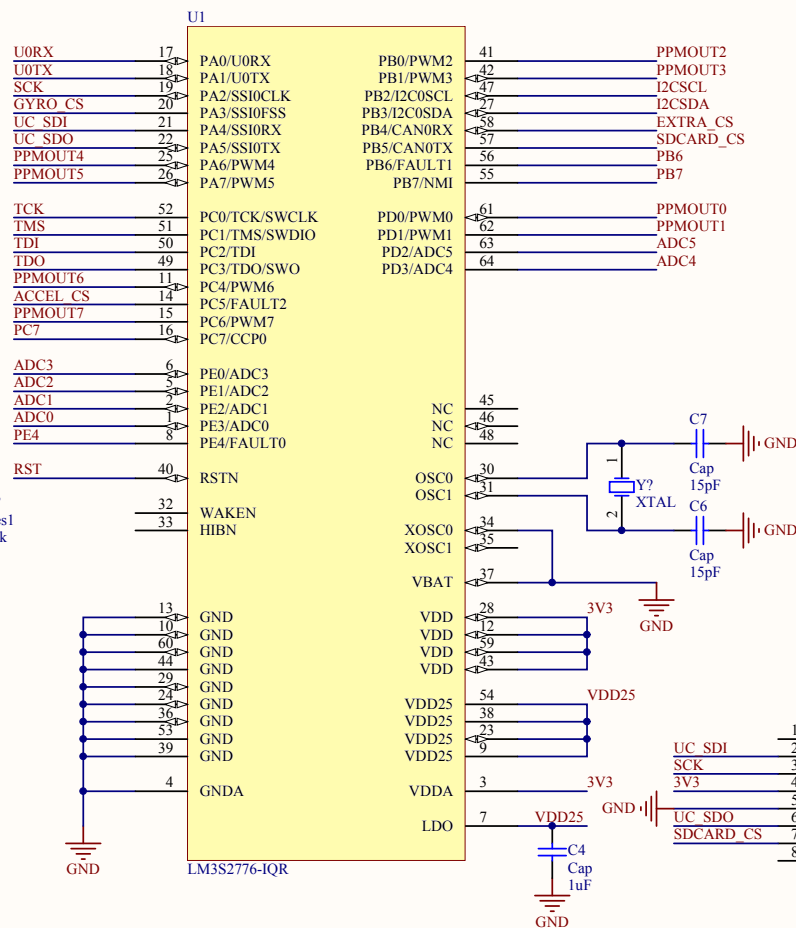* Colocar pull up nos CS?
* Colocar leds
* Colocar Conector com os IOs que sobraram
* Colocar sensor de pressao?
* Qual conector vou usar?

**SPI** M2
3V3 1
UC_SDO 2
UC_SDI 3
SCK 4
EXTRA_CS 5
6
conector127-6x1

**I2C** M3
3V3 1
I2CSDA 2
I2CSCL 3
4
conector127-4x1

**PWM** M4
PPMOUT0 1
PPMOUT1 2
PPMOUT2 3
PPMOUT3 4
PPMOUT4 5
PPMOUT5 6
PPMOUT6 7
PPMOUT7 8
conector127-8x1

fazer array de resistor aqui

**adc / IO** M5
ADC1 1
ADC2 2
ADC3 3
ADC4 4
ADC5 5
U0TX 6
U0RX 7
GND 8
conector127-8x1

GND VCC ADC0
C?
Cap 1uF

**U2** AMS1111
GND 1
VOUT 2 3V3
VIN 3

D? D Schottky
R? Res1 10K
R? Res1 2.2K
GND

**U1** LM3S2776-IQR
U0RX 17 PA0/U0RX PB0/PWM2 41 PPMOUT2
U0TX 18 PA1/U0TX PB1/PWM3 42 PPMOUT3
SCK 19 PA2/SSI0CLK PB2/I2C0SCL 47 I2CSCL
GYRO_CS 20 PA3/SSI0FSS PB3/I2C0SDA 27 I2CSDA
UC_SDI 21 PA4/SSI0RX PB4/CAN0RX 58 EXTRA_CS
UC_SDO 22 PA5/SSI0TX PB5/CAN0TX 57 SDCARD_CS
PPMOUT4 25 PA6/PWM4 PB6/FAULT1 56 PB6
PPMOUT5 26 PA7/PWM5 PB7/NMI 55 PB7

TCK 52 PC0/TCK/SWCLK PD0/PWM0 61 PPMOUT0
TMS 51 PC1/TMS/SWDIO PD1/PWM1 62 PPMOUT1
TDI 50 PC2/TDI PD2/ADC5 63 ADC5
TDO 49 PC3/TDO/SWO PD3/ADC4 64 ADC4
PPMOUT6 11 PC4/PWM6
ACCEL_CS 14 PC5/FAULT2
PPMOUT7 15 PC6/PWM7
PC7 16 PC7/CCP0

ADC3 6 PE0/ADC3
ADC2 5 PE1/ADC2
ADC1 7 PE2/ADC1 NC 45
ADC0 1 PE3/ADC0 NC 46
PE4 8 PE4/FAULT0 NC 48

RST 40 RSTN OSC0 30
OSC1 31
32 WAKEN
33 HIBN XOSC0 34
XOSC1 35

VBAT 37

13 GND VDD 28 3V3
10 GND VDD 12
60 GND VDD 59
44 GND VDD 43
29 GND
24 GND VDD25 54 VDD25
36 GND VDD25 38
53 GND VDD25 23
39 GND VDD25 9

4 GNDA VDDA 3 3V3

LDO 7 VDD25

**VCC**
M1 Conector 2x1
1
2
C3 1uF
C? Cap 100nF
GND

**3V3**
R2 Res1 10K
RST
C5 Cap 100nF
GND

**3V3** U3 L3G4200D
SCK 1 Vdd_IO GND 9
2 SCL/SPC GND 10
UC_SDO 3 SDA/SDI GND 11
UC_SDI 4 SDO/SA0 GND 12
GYRO_CS 5 CS GND 13
6 DRDY/INT2 PLLFIL 14
7 INT1 VDD 15
8 GND VDD 16
C? Cap 100nF
C1 Cap 470nF
C2 Cap 10nF
R? Res1 10k
3V3
GND
GND

**3V3** U4 ADXL345
3V3 1 Vdd_IO
GND 2 GND
3 NA
GND 4 GND
5 GND
3V3 6 Vs
ACCEL_CS 7 CS
8 INT1
9 INT2
10 NC
11 NC
UC_SDI 12 SDO/AADD
UC_SDO 13 SDA/SDI/SDIO
SCK 14 SCL/SCLK
3V3
C? Cap 100nF
GND

C7 Cap 15pF GND
Y? XTAL
C6 Cap 15pF GND
GND

**U?** MINISD
UC_SDI 1 DAT1
SCK 2 DAT0
3 CLK
3V3 4 Vdd
GND 5 GND
UC_SDO 6 CMD
SDCARD_CS 7 CD/DAT3
8 DAT2
GND

**M6** COLINKEX
3V3 1 3V3
TMS 2 TMS
TCK 3 TCLK
TDO 4 TDO
TDI 5 TDI
RST 6 RST
7 NC
8 GND
GND

C4 Cap 1uF GND

**3V3**
C? Cap 100nF | C? Cap 100nF | C? Cap 100nF | C? Cap 100nF | C? Cap 100nF | C? Cap 100nF | C? Cap 100nF | C? Cap 100nF | C? Cap 100nF | C? Cap 100nF
GND

Title

Size A4
Number
Revision

Date: 2/5/2012
File: C:\Users\..\FCStellarisSCH.SchDoc
Sheet of
Drawn By:

# Bill of Materials

<Parameter Title not found>

| Footprint | Comment | LibRef | Designator | Description | Quantity |
|---|---|---|---|---|---|
| Capacitor 0805 | Cap | Cap | C1, C2, C4 | Capacitor | 3 |
| C0805 | Cap Pol3 | Cap Pol3 | C3 | Polarized Capacitor (Surface Mount) | 1 |
| RAD-0.3 | Cap | Cap | C5, C6, C7, C? | Capacitor | 17 |
| SMB | D Schottky | D Schottky | D? | Schottky Diode | 1 |
| Con256M2x1 | Conector 2x1 | conector254-2x1 | M1 | | 1 |
| | conector127-6x1 | conector127-6x1 | M2 | | 1 |
| | conector127-4x1 | conector127-4x1 | M3 | | 1 |
| | conector127-8x1 | conector127-8x1 | M4, M5 | | 2 |
| | COLINKEX | JTAG_COLINKEX | M6 | | 1 |
| AXIAL-0.3 | Res1 | Res1 | R2, R? | Resistor | 3 |
| Capacitor 0805 | Res1 | Res1 | R? | Resistor | 1 |
| QFP50P1200X1200X160-64N | LM3S2776-IQR | LM3S2776-IQR | U1 | Stellaris ARM Cortex-M3 Microcontroller | 1 |
| AMS1111 | AMS1111 | AMS1111 | U2 | 3.3V Linear Regulator | 1 |
| LGA16 | L3G4200D | L3G4200D | U3 | Digital Gyroscope 3-axis | 1 |
| QFN80P500X300X80-14N | ADXL345 | ADXL345 | U4 | | 1 |
| | MINISD | MINI_SD | U? | | 1 |
| R38 | XTAL | XTAL | Y? | Crystal Oscillator | 1 |
| | | | | | 38 |

| Approved | Notes | |
|---|---|---|
| | | |