

# FILTERING

Signals of interest: 0 to 100Hz  
Nyquist: 1kHz  
Sample: 2kHz

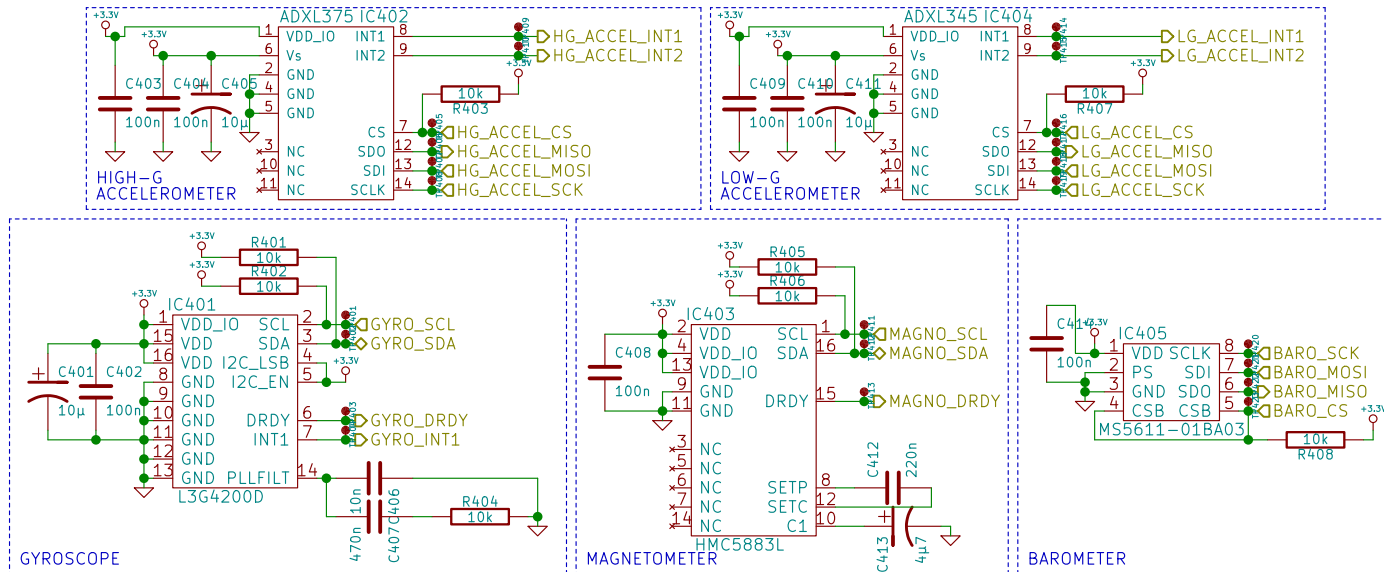
## FRONTEND FILTER

Freq, Diff:  $1/(2 \pi R (2C_c + C_d)) = 132\text{Hz}$   
Freq, CM:  $1/(2 \pi R C_c) = 1591\text{Hz}$

## ANTIALIAS FILTER

-3dB: 300Hz  
Rejection at Nyquist: -40dB

## INERTIAL MEASUREMENT UNIT



Drawn By: Adam Greig  
Cambridge University Spaceflight

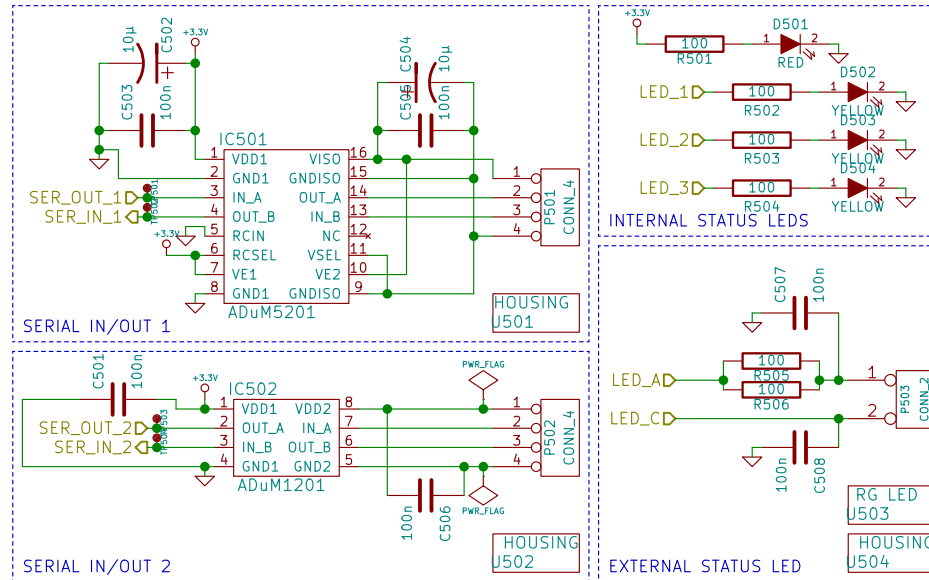
Sheet: /IMU/  
File: imu.sch

**Title: Martlet 2 Flight Computer**

Size: A4  
KiCad E.D.A. kicad (2014-jul-16 BZR unknown)-product

Date: 18 Jul 2014  
Rev: 1  
Id: 4/6

## INPUT/OUTPUT



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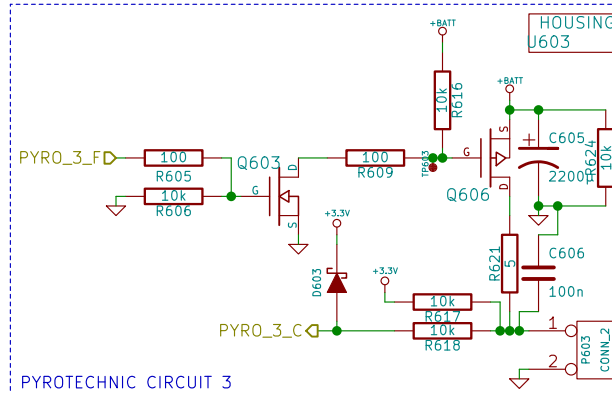
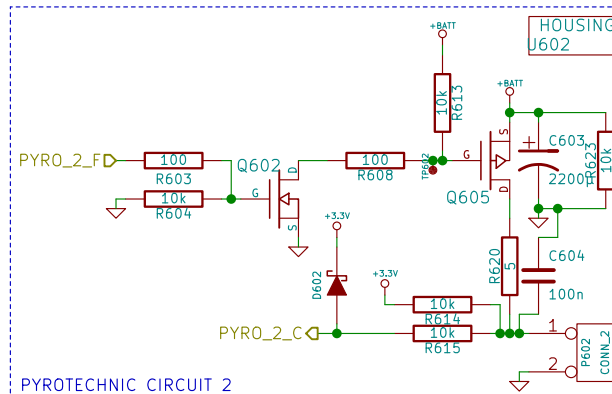
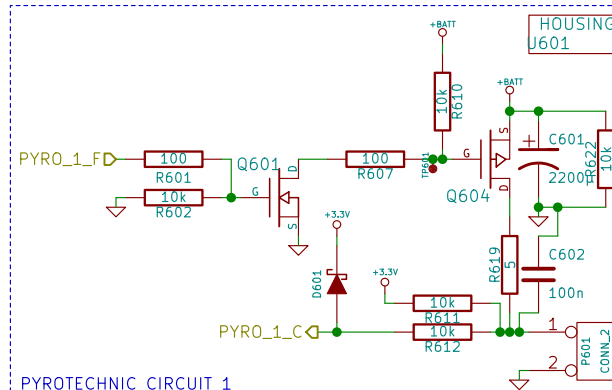
Sheet: /IO/  
File: io.sch

**Title: Martlet 2 Flight Computer**

Size: A4 Date: 18 Jul 2014  
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## PYROTECHNIC CHANNELS



Drawn By: Adam Greig  
Cambridge University Spaceflight

Sheet: /Pyros/  
File: pyros.sch

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