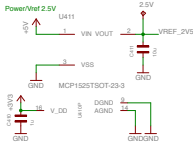
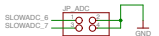


## Raspberry Pi 2

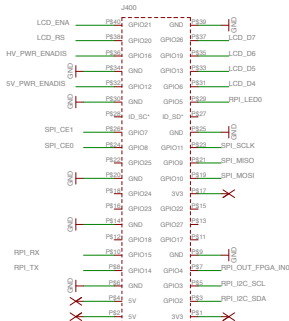
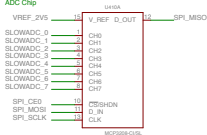
### Slow ADC



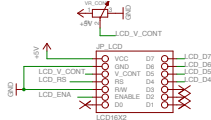
### General-purpose Analog Input



### ADC Chip



### 16x2 LCD



### To outside pressure sensor (I2C)



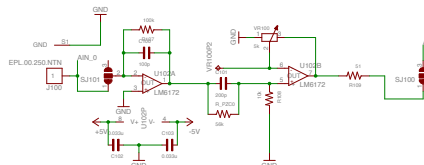
### Temperature sensors

#### LM60 sensors connected via cable

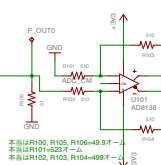
##### For PMT temp monitor



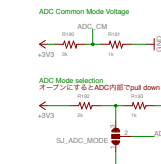
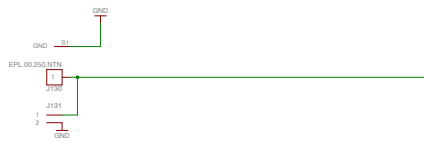
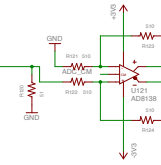
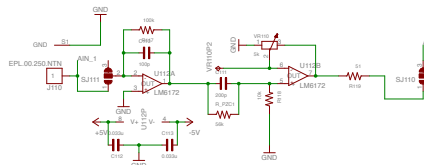
Pre Amplifier for PMT



Single-end-to-differential Amp



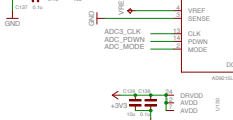
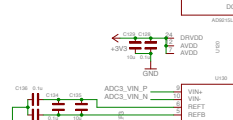
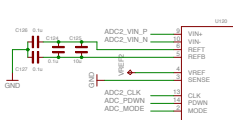
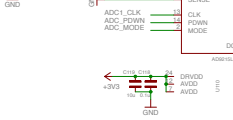
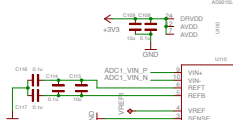
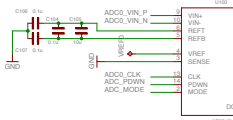
本論はR102, R103, R104=499Ω  
本論はR102=499Ω, R103=499Ω, R104=499Ω



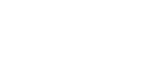
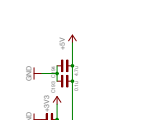
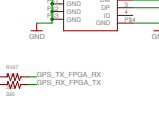
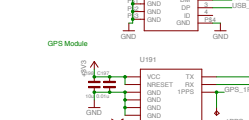
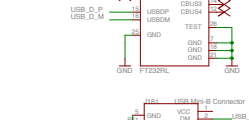
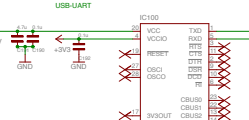
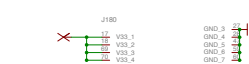
ADC Mode selection  
オープンにする。とADCがOFFでpull downの。 "Offset binary" + "Duty-ratio stabilizer disabled" で動作。

ADC

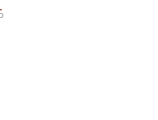
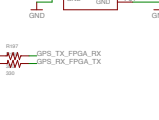
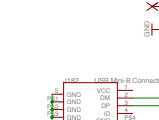
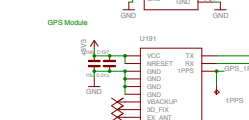
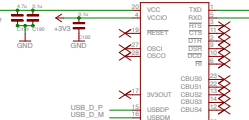
SENSEピンもGNDに繋いでいるので、  
differential amplifier (A/V/T) - WakeUpになる。



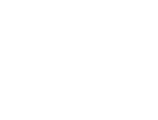
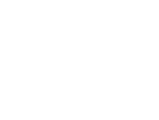
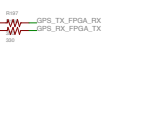
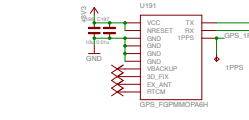
FPGA



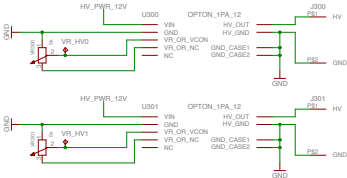
USB-UART



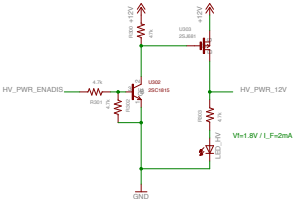
GPS Module



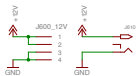
## HVP'S Modules



## HV 12V Power Control (from Raspberry Pi)



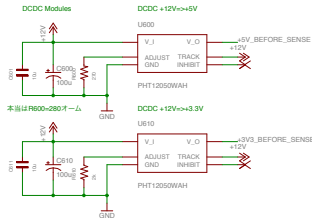
## Power Connectors (input)



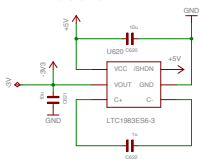
## パイロットランプ(5V)



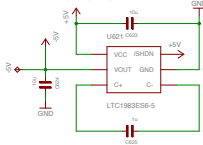
## DCDC Modules



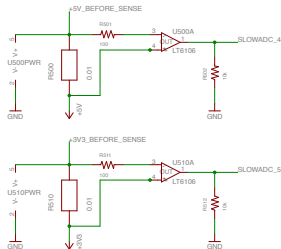
## DCDC +5V $\rightarrow$ 3V



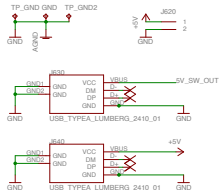
## DCDC +5V $\rightarrow$ -5V



## Current Sense Amp



## Power Connectors (output)



## 5V On/Off from Raspberry Pi

