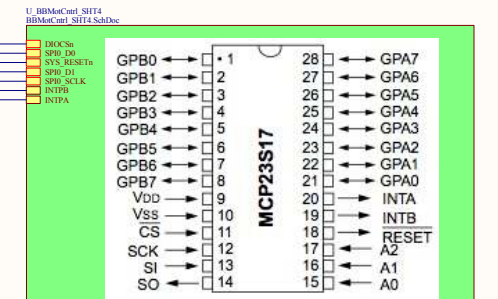
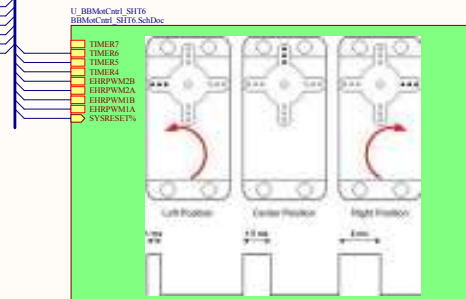
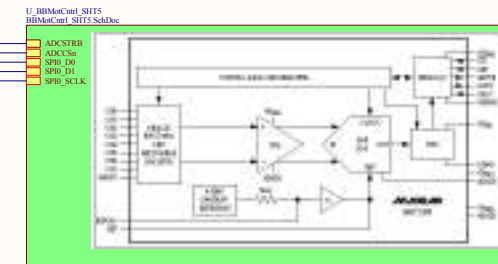
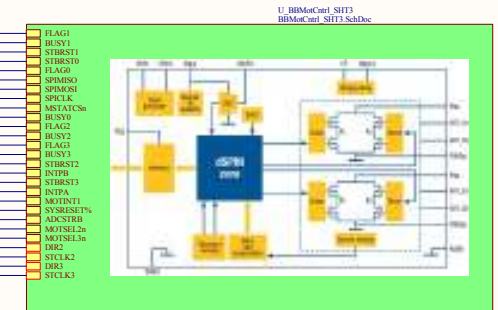
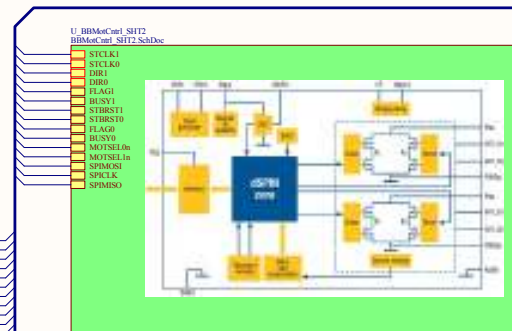
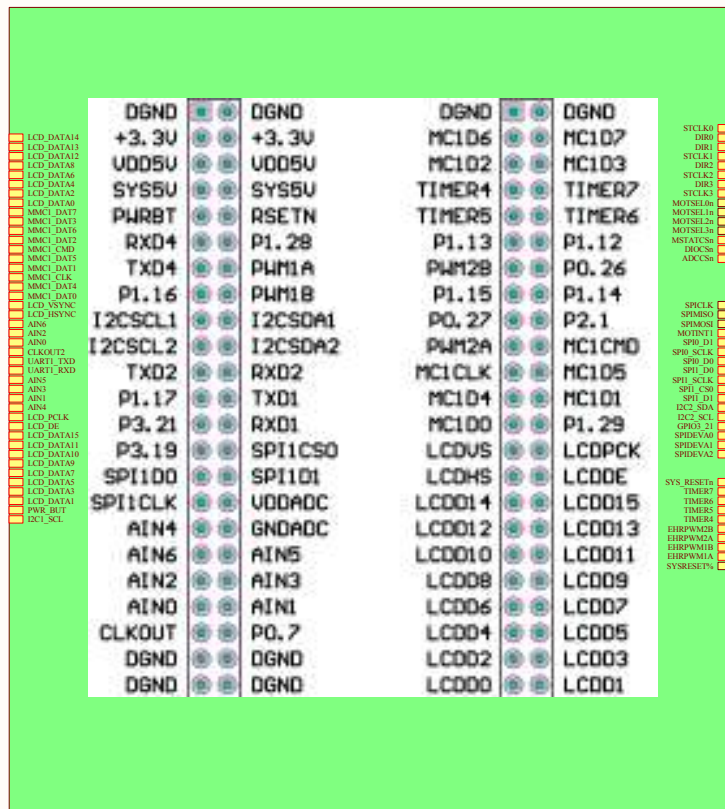


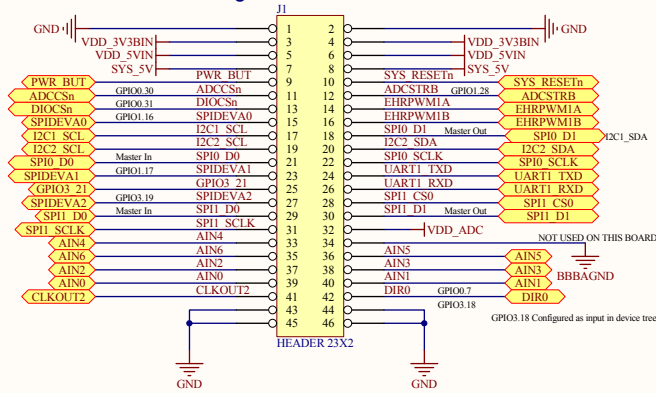
EMBEDDEDTOYS.COM  
BEAGLEBONE BLACK ROBO CAPE REV A  
3/2/2014

SHEET	
1	BBB Robo Cape Interface + SPI Decoding
2	BBB Robo Cape L6470 (1 and 2)
3	BBB Robo Cape L6470 (3 and 4)
4	BBB Robo Cape Digital I/O
5	BBB Robo Cape MAX1300 ADC
6	BBB Robo Cape PWM + PWR IN

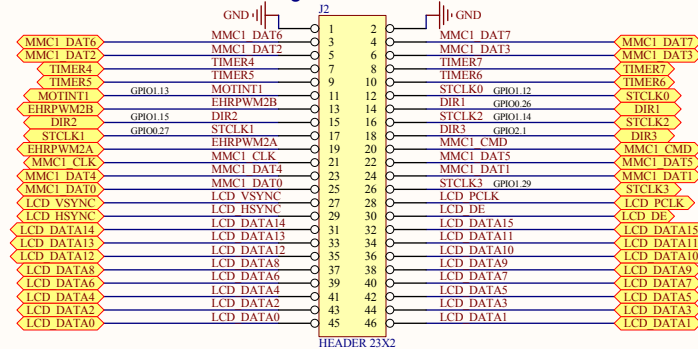


## BBB Interface

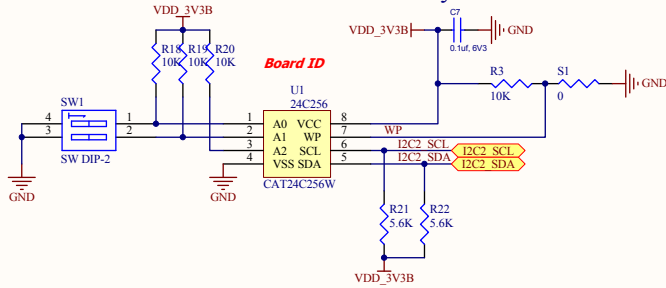
### Beaglebone Black P9 Header



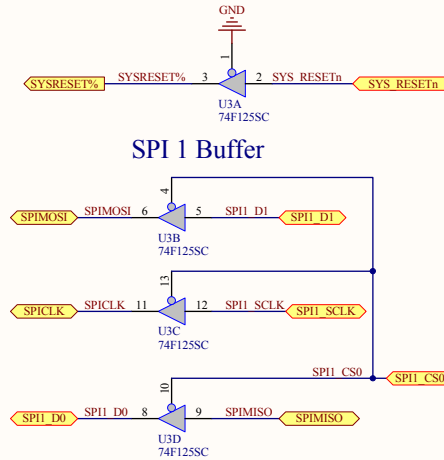
### Beaglebone Black P8 Header



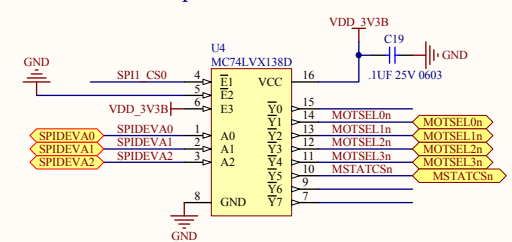
### Board Data Memory



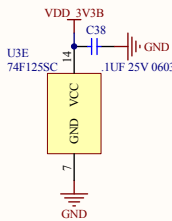
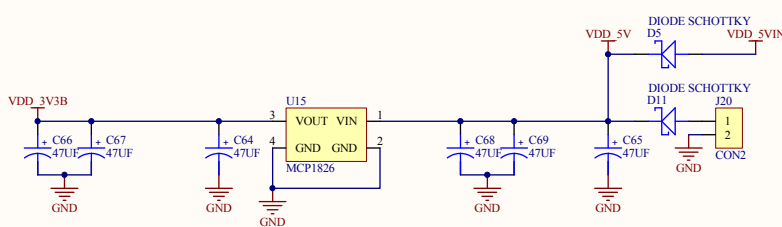
### SPI 1 Buffer



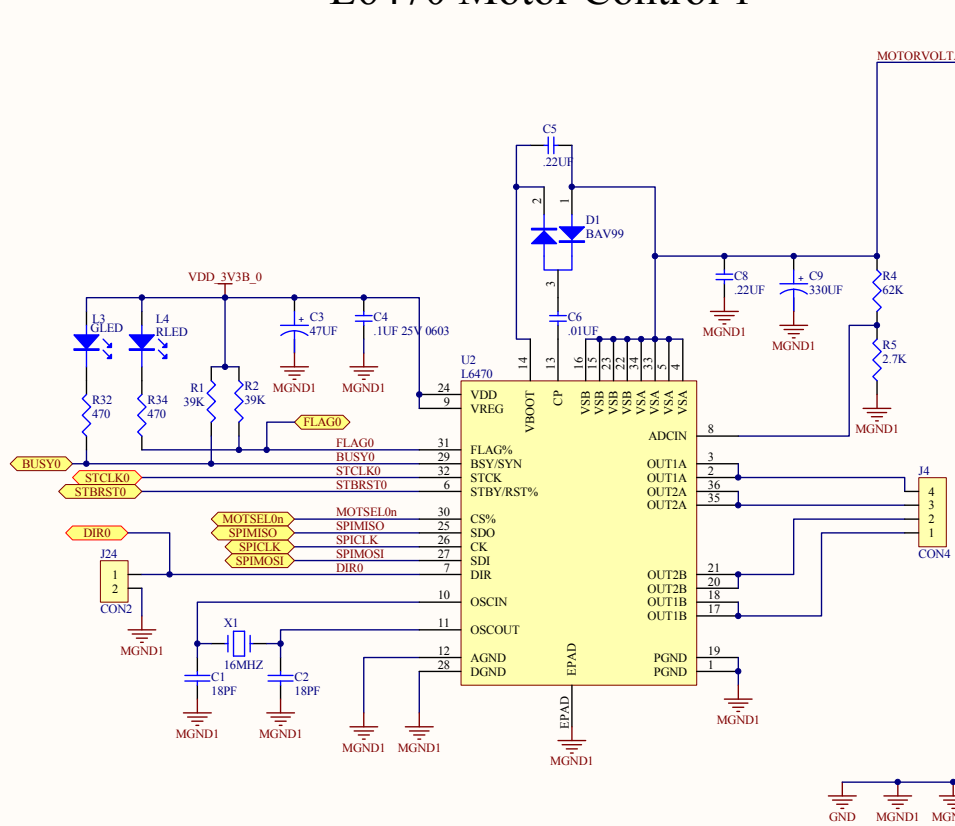
### Chip Select Decoder



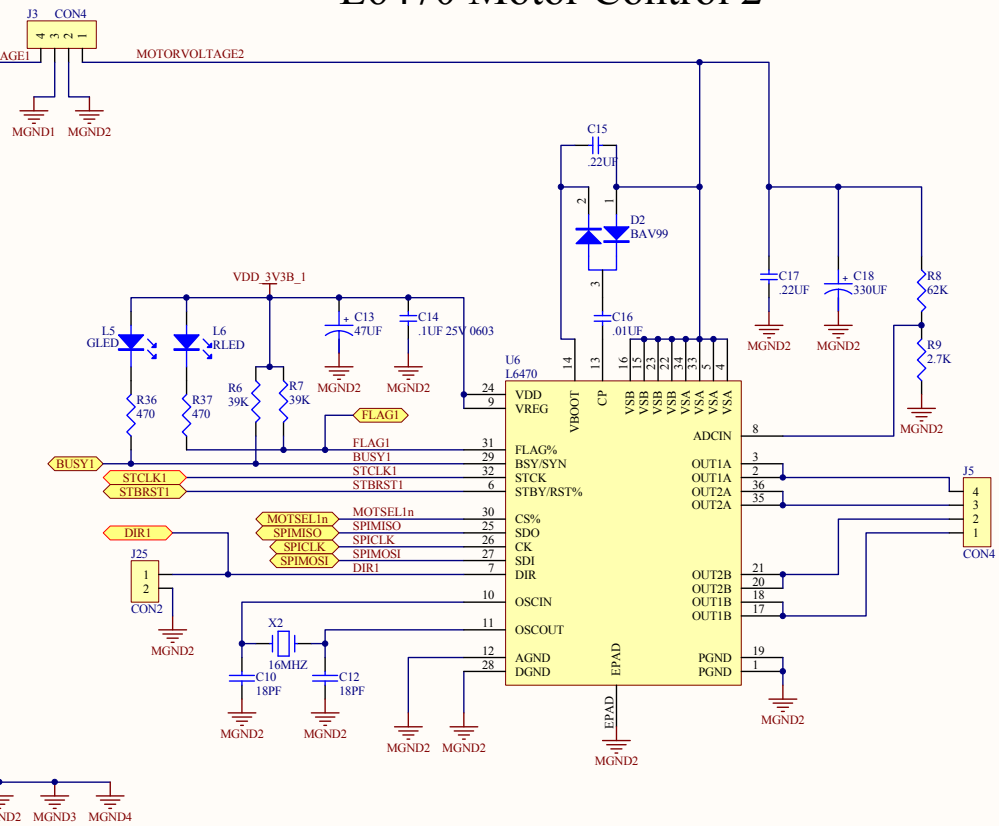
### PWR IN + 3.3V REGULATOR



# L6470 Motor Control 1



## L6470 Motor Control 2

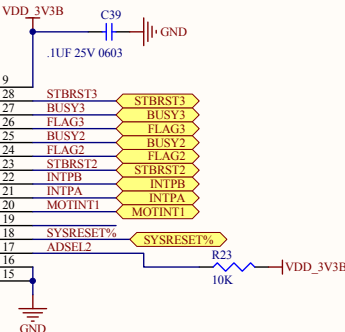


Title BBB Robo Cape L6470 (1 and 2)			
Size B	Number		Revision A
Date: 6/25/2014	Sheet 2 of 6		
File: C:\BB MOTCntl revA\1_BBMotCntl SH1.DiscDoc			

## D

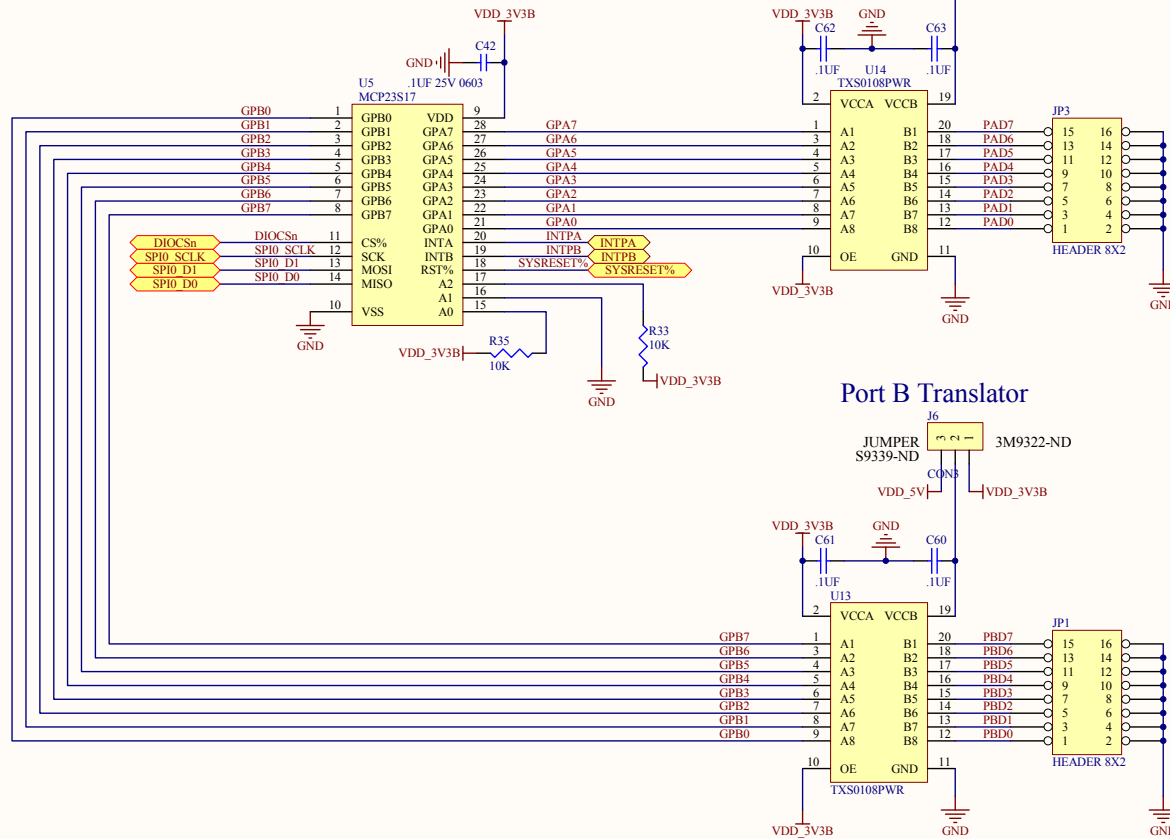


## D



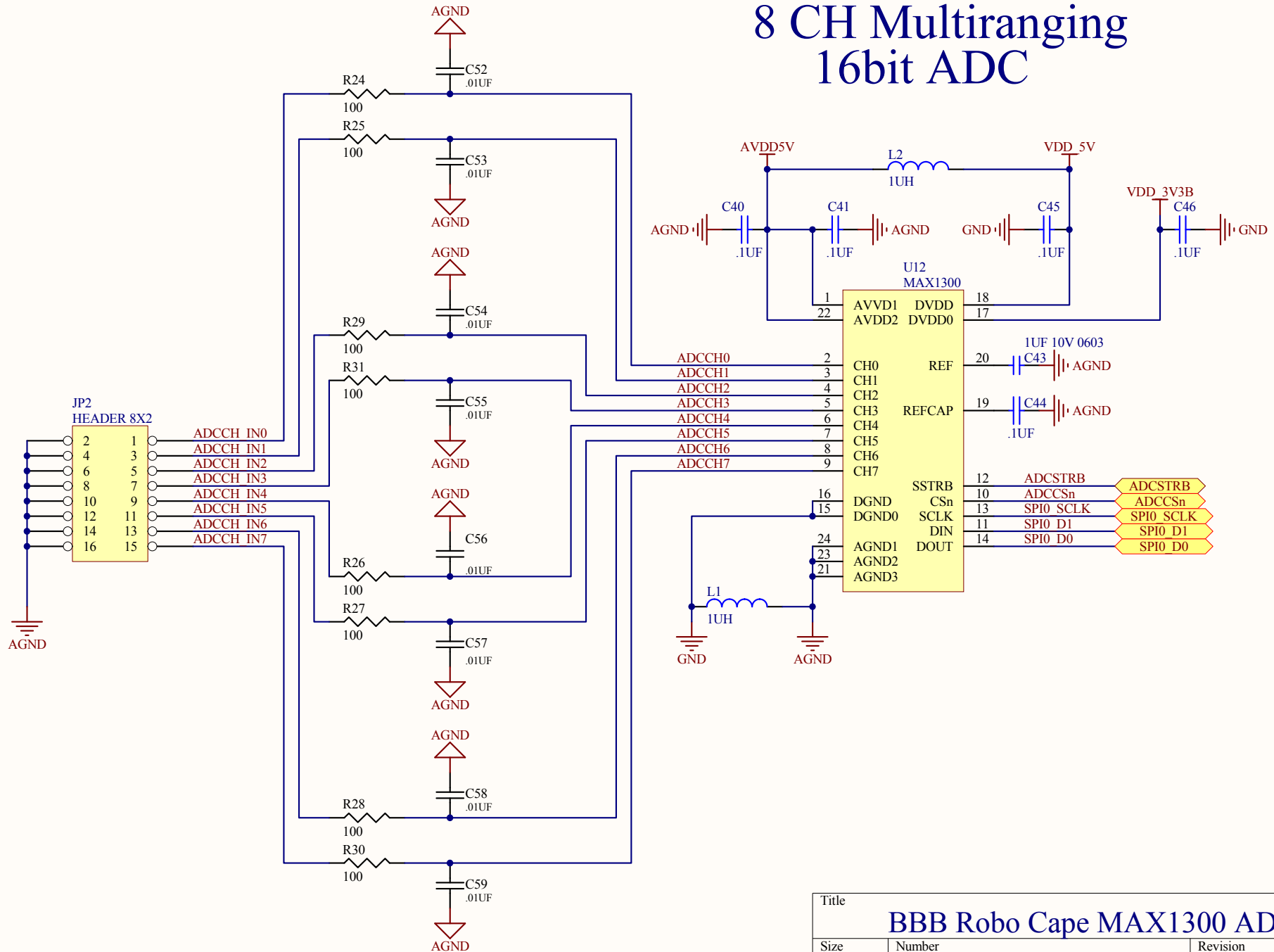
5	6
---	---

# Port A And B Digital I/O



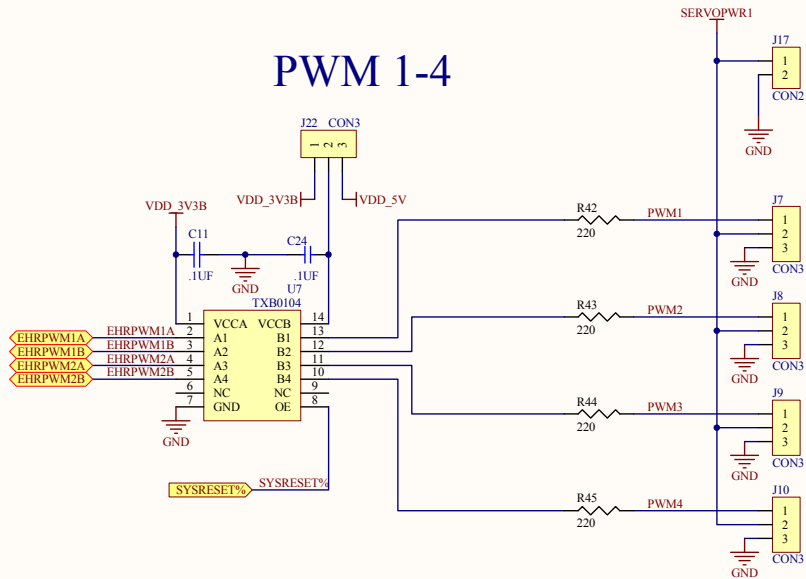
Title <b>BBB Robo Cape Digital I/O</b>		
Size B	Number	Revision <b>A</b>
Date:	6/25/2014	Sheet 4 of 6
File:	C:\BB_MOTCtrl_revA1\BBMotCtrl_SchDoc	HTSchDoc

# 8 CH Multiranging 16bit ADC

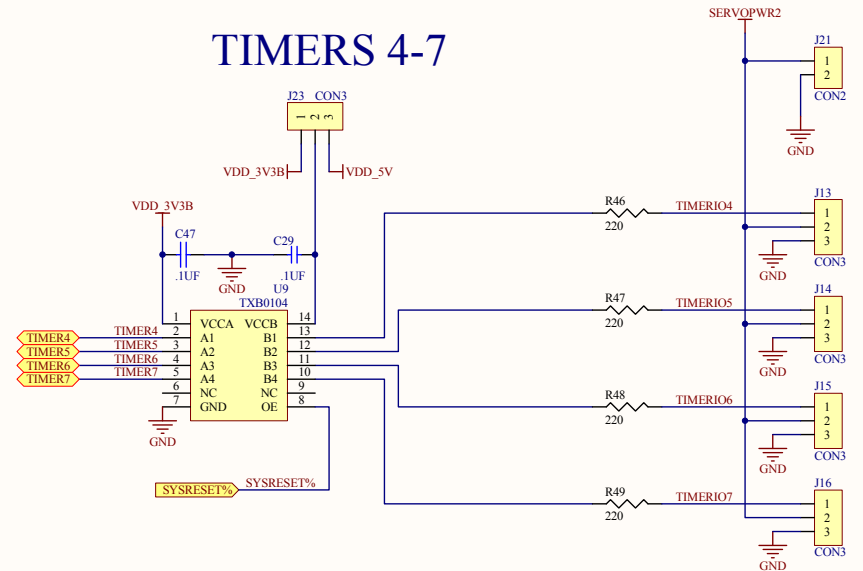


Title		
BBB Robo Cape MAX1300 ADC		
Size	Number	Revision
A		A
Date:	6/25/2014	Sheet 5 of 6
File:	C:\BB MOTCntl revA1\BBMotCntl SHDraSch Doc	

## PWM 1-4



## TIMERS 4-7



Title		
BBB Robo Cape PWM + PWR IN		
Size	Number	Revision
B		A
Date:	6/25/2014	Sheet 6 of 6
File:	C:\BB_MOTCtrl_revA1\BBMotCtrl_Schematic.Dwg	