

1

2

3

4

A

A

B

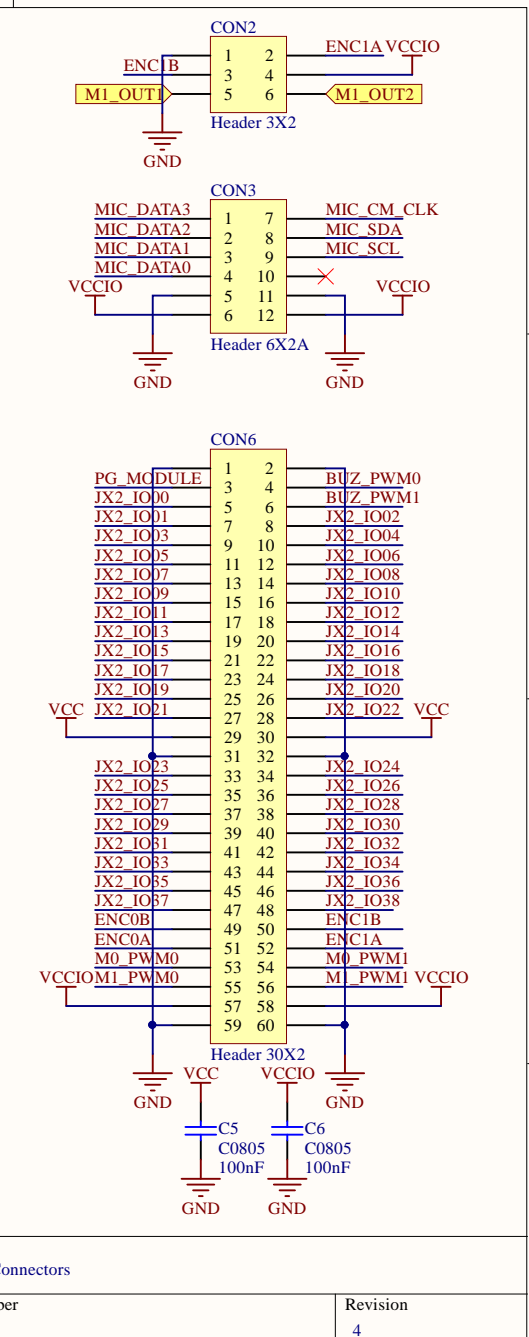
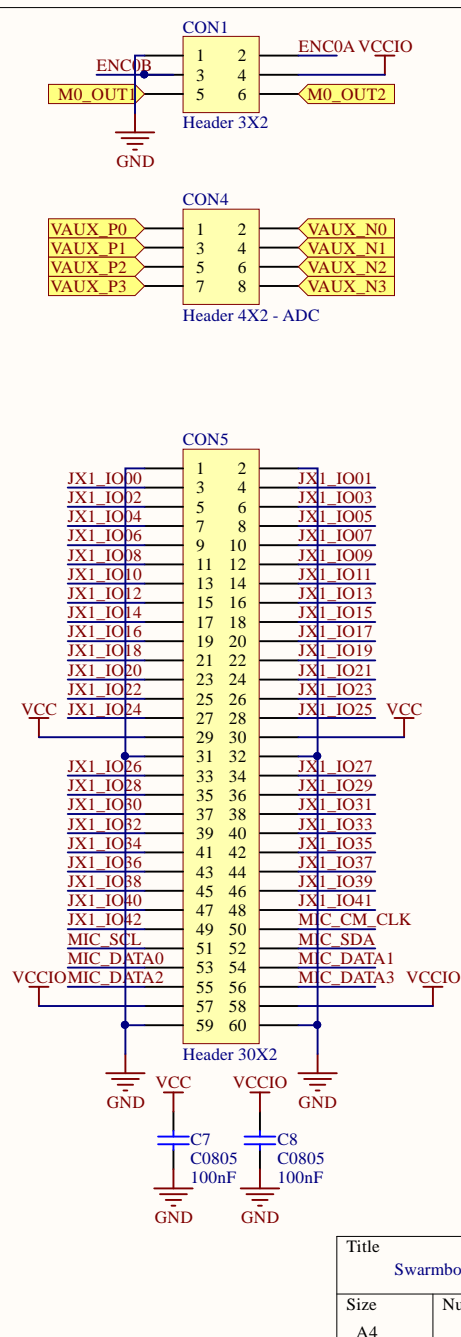
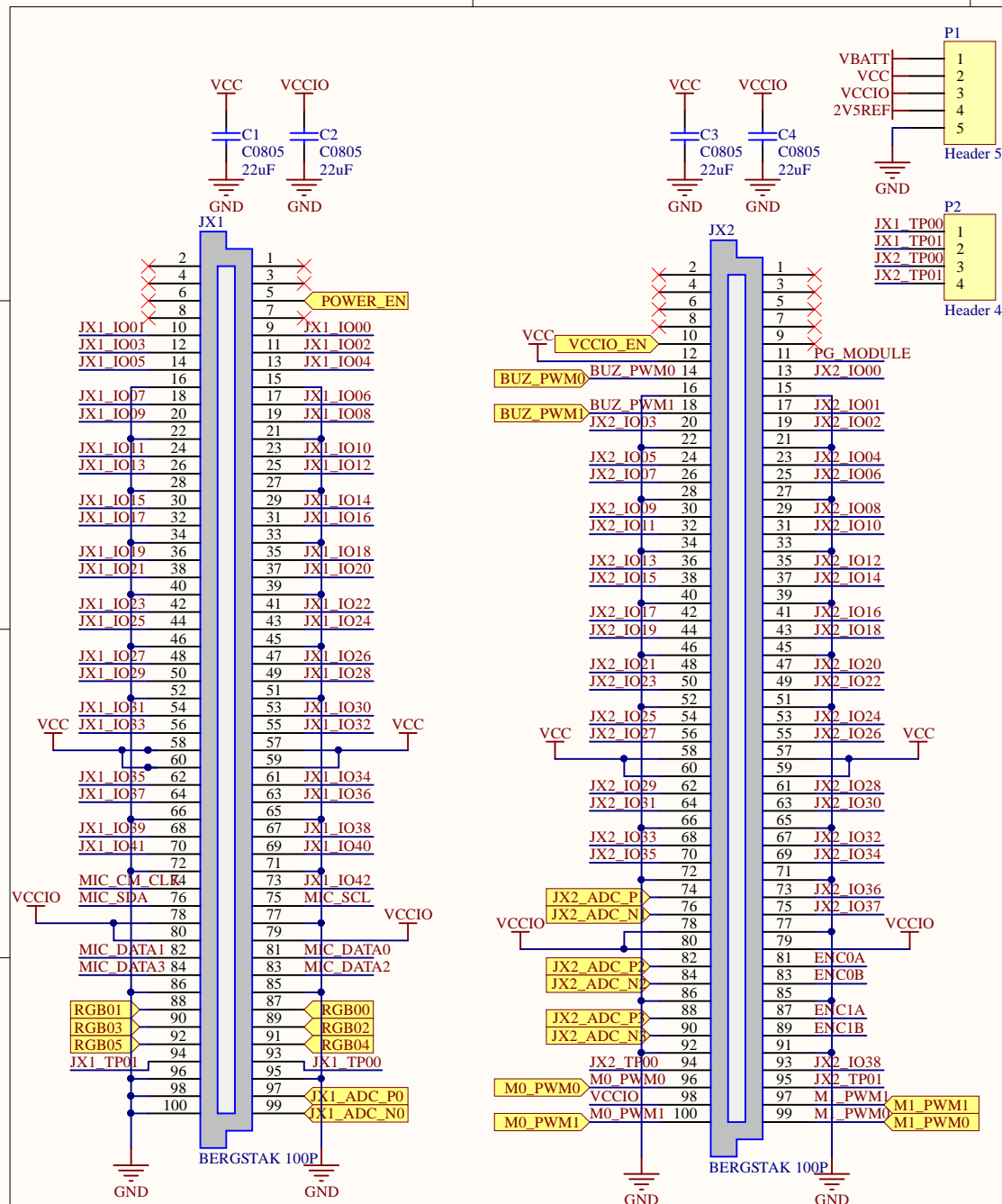
B

C

C

D

D



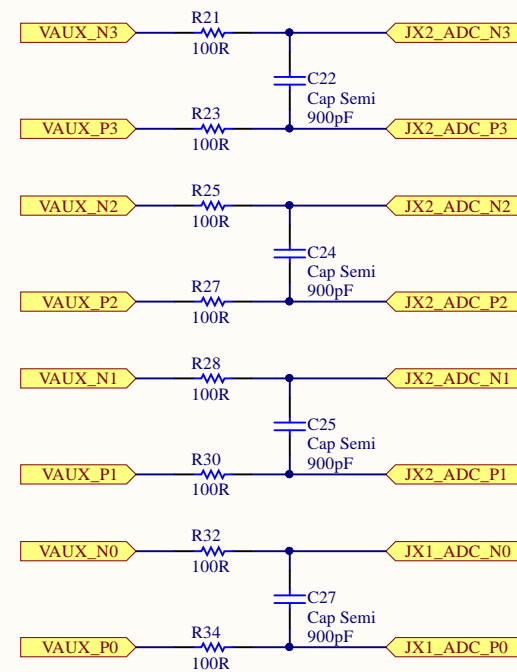
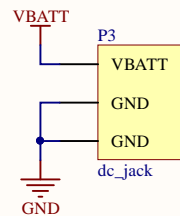
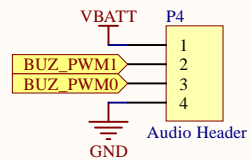
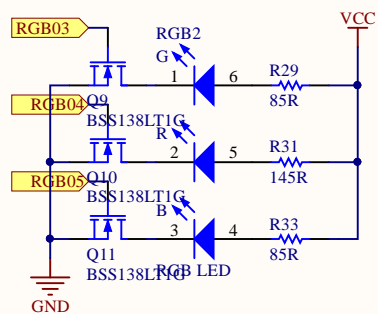
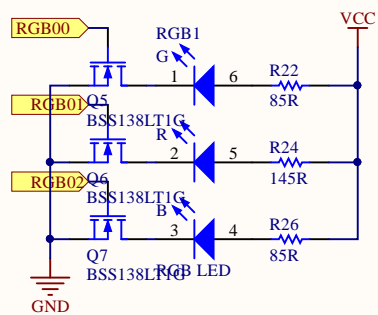
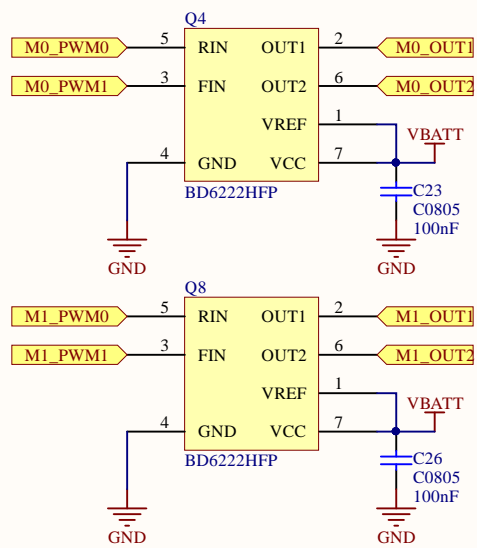
Title			
Swarmbot Connectors			
Size	Number	Revision	
A4		4	
Date:	20/04/2017	Sheet 1 of 3	
File:	C:\Users\...\carrier_card.SchDoc	Drawn By: Thomas Christensen	

1

2

3

4



Title Debug LEDs / Anti-Aliasing / Motor Drivers		
Size A4	Number	Revision 4
Date: 20/04/2017	Sheet 3 of 3	
File: C:\Users\...\carrier_card_s3.SchDoc	Drawn By: Thomas Christensen	

Item #	mn Name Error:Manufa	#Column Name Error:Manufacturer No	Quantity	#Column Name Error:Note	Designator	Description	Footprint	Comment	LibRef
1			22		C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C13, C14, C15, C16, C17, C18, C19, C20, C21, C23, C26	Ceramic Chip Capacitor - Standard	0805	C0805	C0805
2			1		C12	Capacitor (Semiconductor SIM Model)	20SVP150M_FP	20SVP150M	20SVP150M
3			4		C22, C24, C25, C27	Capacitor (Semiconductor SIM Model)	0402	Cap Semi	Cap Semi
4			2		CON1, CON2	Header, 3-Pin, Dual row	HDR2X3	Header 3X2	Header 3X2
5			1		CON3	Header, 6-Pin, Dual row	HDR2X6_CEN	Header 6X2A	Header 6X2A
6			1		CON4	Header, 4-Pin, Dual row	HDR2X4	Header 4X2 - ADC	Header 4X2
7			2		CON5, CON6	Header, 30-Pin, Dual row	HDR2X30	Header 30X2	Header 30X2
8			3		D1, D3, D4	Schottky Rectifier	POWERDI-123	18TQ045	18TQ045
9			1		D2	Variable voltage reference	SOT-23_N	TL431AIDBZT	TL431AIDBZT
10			1		J1	Header, 2-Pin	HDR1X2	Header 2	Header 2
11			2		JX1, JX2	100p connector, BERGSTAK	FCI_BERGSTAK_100P	BERGSTAK 100P	BERGSTAK 100P
12			1		L1	SRN5020-2R2Y	SRN5020-2R2Y_FP	2.2uH	SRN5020-2R2Y
13			1		P1	Header, 5-Pin	HDR1X5	Header 5	Header 5
14			1		P2	Header, 4-Pin	HDR1X4	Header 4	Header 4
15			1		P3		Power Jack	dc jack	dc jack
16			1		P4	Header, 4-Pin	HDR1X4	Audio Header	Header 4
17			9		Q1, Q2, Q3, Q5, Q6, Q7, Q9, Q10, Q11	N-Channel MOSFET	SOT-23B	BSS138LT1G	BSS138LT1G
18			2		Q4, Q8		HRP7_N	BD6222HFP	BD6222HFP
19			1		R1	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	1K5	ERA6Y
20			1		R2	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	3K	ERA6Y
21			6		R3, R5, R10, R11, R12, R13	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	1K	ERA6Y
22			1		R4	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	45K3 0.1%	ERA6Y
23			1		R6	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	100K	ERA6Y
24			1		R7	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	3K74	ERA6Y
25			1		R8	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	10K 0.1%	ERA6Y
26			1		R9	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	ERA-0805	348R1%	ERA6Y
27			1		R14	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	3K92	ERA6Y
28			2		R15, R16	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	3K92 1%	ERA6Y
29			1		R17	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	220	ERA6Y
30			1		R18	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	120	ERA6Y
31			1		R19	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	680R 1%	ERA6Y
32			1		R20	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	430R 1%	ERA6Y
33			8		R21, R23, R25, R27, R28, R30, R32, R34	Thick Film Chip Resistor, 1 Ohm to 2.2M Ohm Range, 5% Tolerance, 0402 Size, 0.063 W	2-0402	100R	ERJ2GE
34			4		R22, R26, R29, R33	Thick Film Chip Resistor, 1 Ohm to 2.2M Ohm Range, 5% Tolerance, 0402 Size, 0.063 W	2-0402	85R	ERJ2GE
35			2		R24, R31	Thick Film Chip Resistor, 1 Ohm to 2.2M Ohm Range, 5% Tolerance, 0402 Size, 0.063 W	2-0402	145R	ERJ2GE
36			1		REG1		PTH08080W_FP	PTH08080WAH	PTH08080WAH
37			1		REG2		SOT23-5	LMR10510XMF	LMR10510XMF
38			2		RGB1, RGB2		RGB_LED	RGB LED	LTR8 R8SF
39			1		SW1		1101M2S3CQE2_FP	1101M2S3CQE2	1101M2S3CQE2
40			1		U1	IC SMD AMP+COMPAR Combo SOIC-8	SOT23-5	TLV2702	LMV331QDBVRQ1