





Title Debug LEDs / Anti-Aliasing / Motor Drivers		
Size A4	Number	Revision 1
Date:	07/04/2017	Sheet 3 of 3
File:	C:\Users\...\carrier_card_s3.SchDoc	Drawn By: Thomas Christensen

Bill of Materials

Swarmbot Connectors

Source Data From: swarmbot.PrjPcb
Project: swarmbot.PrjPcb
Variant: None

Creation Date: 07/04/2017 14:36:55
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Footprint	Comment	LibRef	Designator	Description	Quantity
0805	C0805	C0805	C1, C2, C3, C4, C5, C6, C7, C8, C9, C11, C12, C13, C14, C15, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28	Ceramic Chip Capacitor - Standard	26
20SVP150M_FP	20SVP150M	20SVP150M	C10, C16	Capacitor (Semiconductor SIM Model)	2
HDR2X3	Header 3X2	Header 3X2	CON1, CON2	Header, 3-Pin, Dual row	2
HDR2X6_CE	Header 6X2A	Header 6X2A	CON3	Header, 6-Pin, Dual row	1
HDR2X4	Header 4X2 - ADC	Header 4X2	CON4	Header, 4-Pin, Dual row	1
HDR2X30	Header 30X2	Header 30X2	CON5, CON6	Header, 30-Pin, Dual row	2
TO-220AC	Diode 18TQ045	Diode 18TQ045	D1	Schottky Rectifier	1
SOT-23_N	TL431AIDBZT	TL431AIDBZT	D2	Variable voltage reference	1
TO-220AC	18TQ045	Diode 18TQ045	D3, D4	Schottky Rectifier	2
HDR1X2	Header 2	Header 2	J1	Header, 2-Pin	1
FCI BERGSTAK_100P	BERGSTAK 100P	BERGSTAK 100P	JX1, JX2	100p connector, BERGSTAK	2
IND_WW_DR73	2.2uH	SRN5020-2R2Y	L1	SRN5020-2R2Y	1
HDR1X5	Header 5	Header 5	P1	Header, 5-Pin	1
E3	BSS138LT1G	BSS138LT1G	Q1, Q2, Q3, Q5, Q6, Q7, Q9, Q10, Q11	N-Channel MOSFET	9
HRP7_N	BD6222HFP	BD6222HFP	Q4, Q8		2
ERA-0805	1K5	ERA6Y	R1	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	1
ERA-0805	3K	ERA6Y	R2	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	1
ERA-0805	1K	ERA6Y	R3, R5, R10, R11, R12, R20	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	6
ERA-0805	45K3 0.1%	ERA6Y	R4	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	1
ERA-0805	100K	ERA6Y	R6	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	1
ERA-0805	3K74	ERA6Y	R7	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	1
ERA-0805	10K 0.1%	ERA6Y	R8	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	1
ERA-0805	348R1%	ERA6Y	R9, R13	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2
ERA-0805	3K92 1%	ERA6Y	R14, R21	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2
ERA-0805	3K92	ERA6Y	R15	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	1
ERA-0805	680R 1%	ERA6Y	R16	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	1
ERA-0805	220R	ERA6Y	R17	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	1
ERA-0805	430R 1%	ERA6Y	R18	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	1
ERA-0805	120R	ERA6Y	R19	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	1
ERA-0805	100R	ERA6Y	R22, R24, R26, R28, R29, R31, R33, R35	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	8
ERA-0805	85R	ERA6Y	R23, R27, R30, R34	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	4
ERA-0805	145R	ERA6Y	R25, R32	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2
PTH08080W_FP	PTH08080WAH	PTH08080WAH	REG1, REG3		2
SOT23-5	LMR10510XMF	LMR10510XMF	REG2		1
RGB_LED	LTRB R8SF	LTRB R8SF	RGB1, RGB2		2
1101M2S3CQE2	1101M2S3CQE2	1101M2S3CQE2	SW1		1
SOIC127P60 0X175-8AN	TLV2702	LMV331QDBVR	U1	IC SMD AMP+COMPAR Combo SOIC-8	1
					96
Approved		Notes			