

SCHEMATIC - ROBOKIT - VER-5

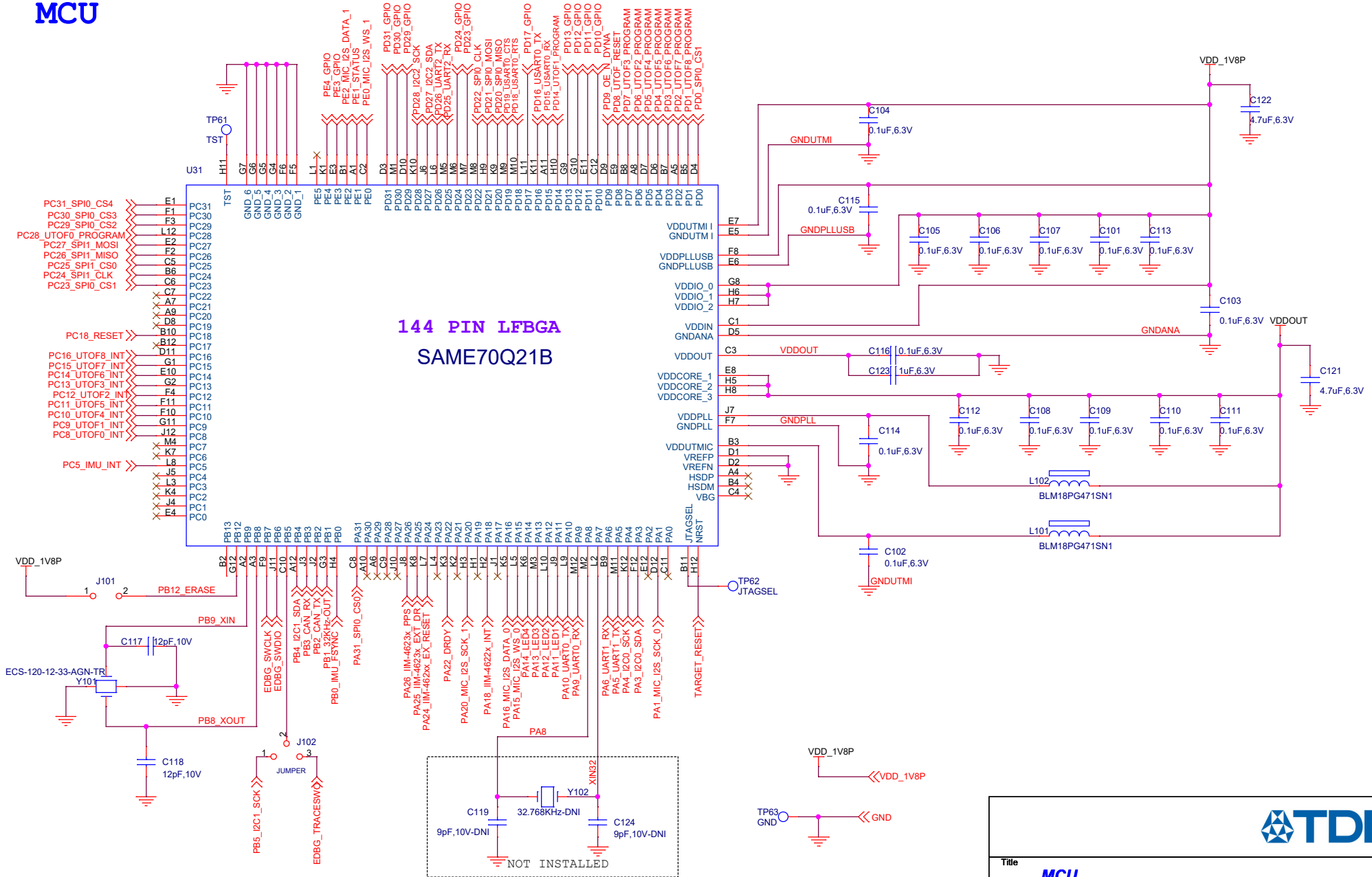
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9	ROBOKIT HDR-FTDI UART
10	DYNAMIXEL_MOTOR
11	HVC4223FX2_MOTOR DRIVER



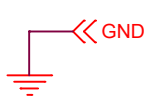
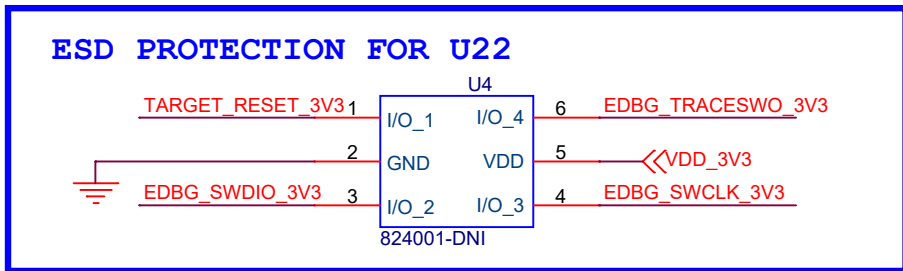
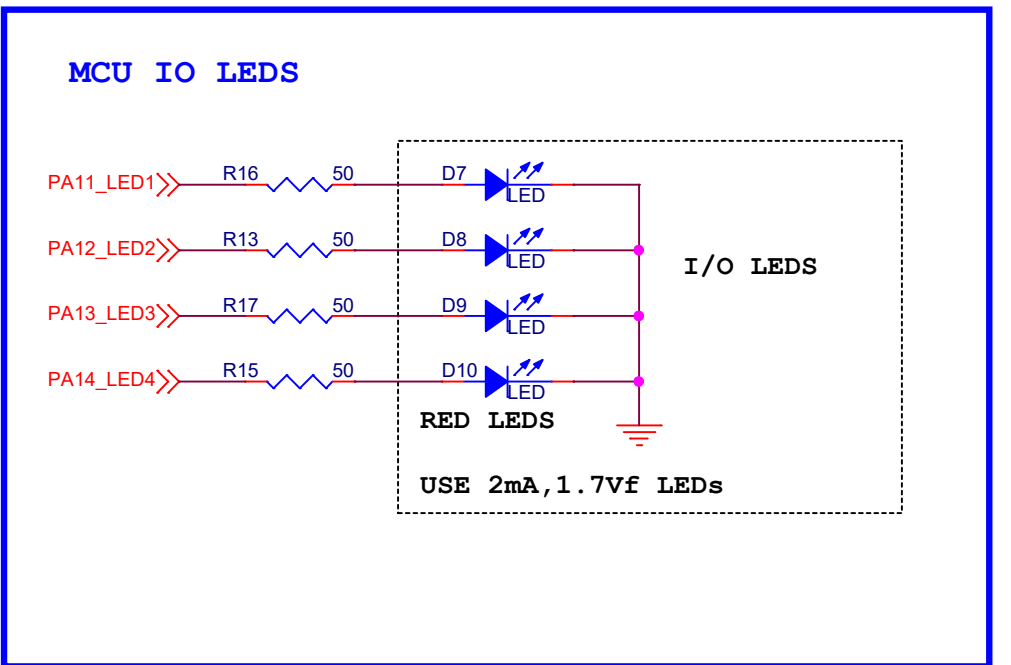
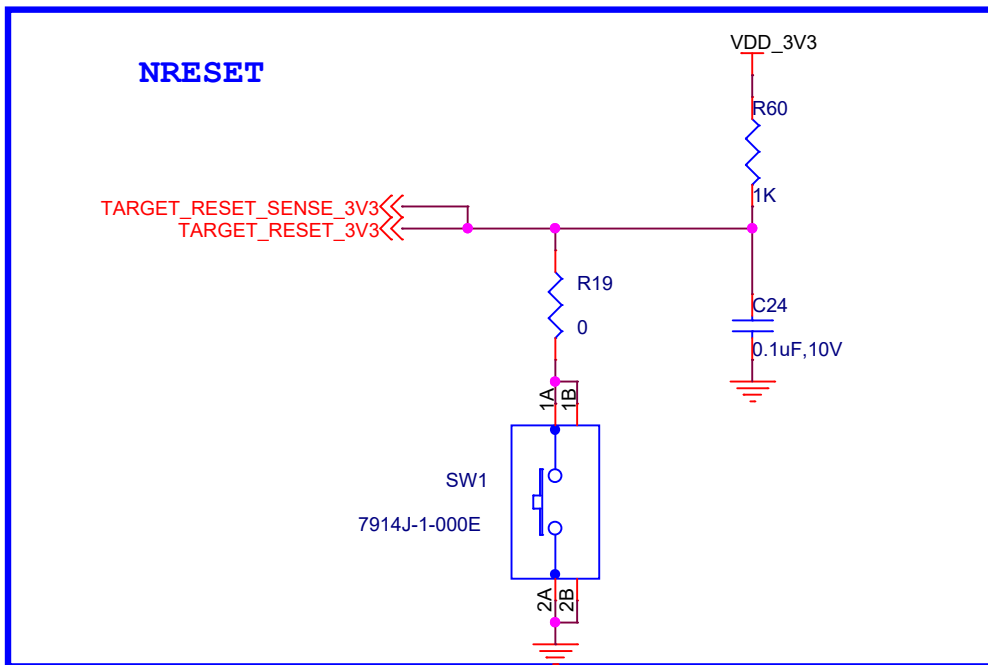
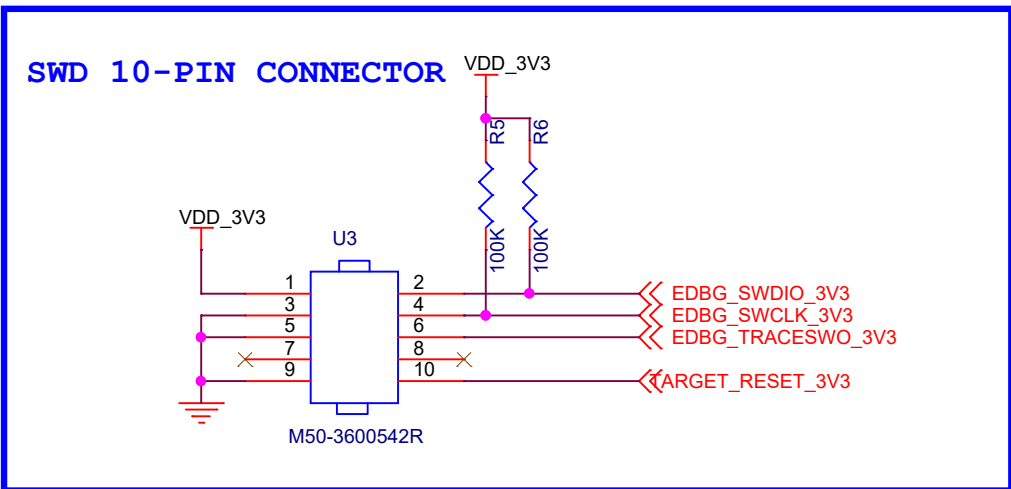
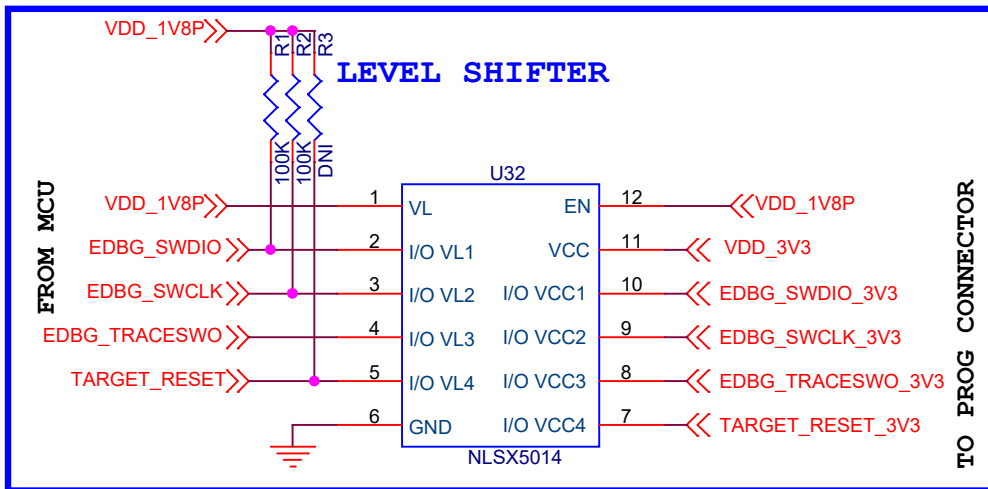
Title			
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MCU

144 PIN LFBGA
SAME70Q21B



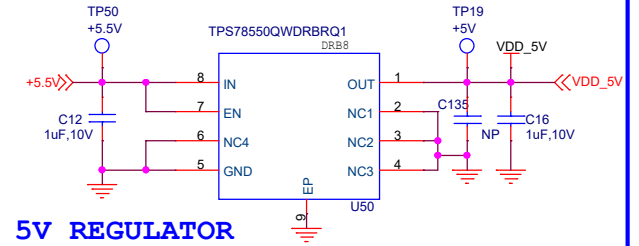
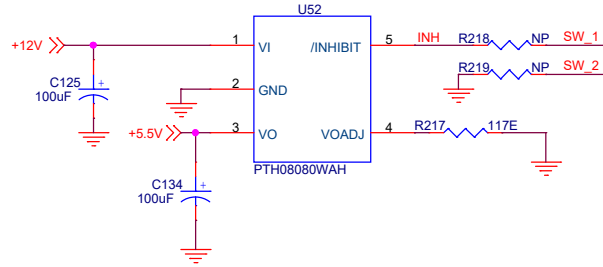
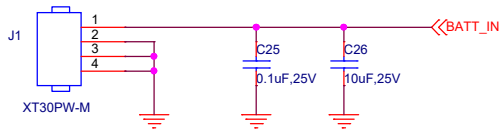
Title MCU		
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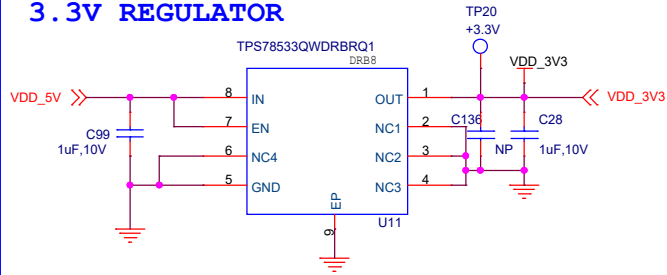
Title			
MCR PROG CONNECTOR AND LED			
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POWER SUPPLY SECTION

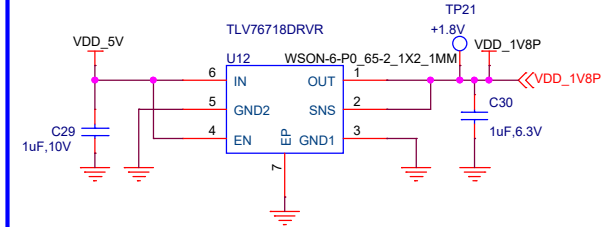
DESIGNED FOR 12V LI-POLY BATTERY



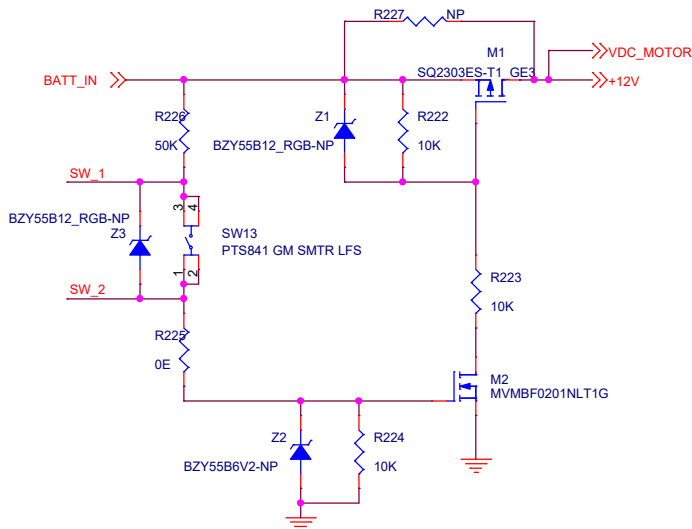
3.3V REGULATOR



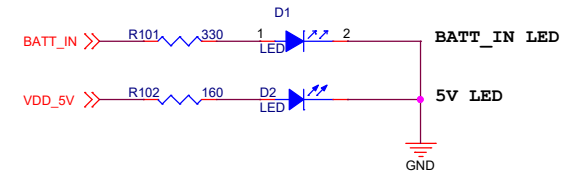
1.8V REGULATOR



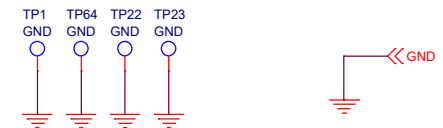
INPUT POWER SWITCH



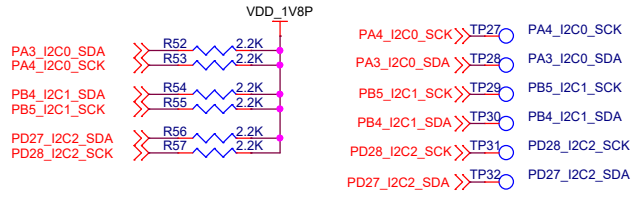
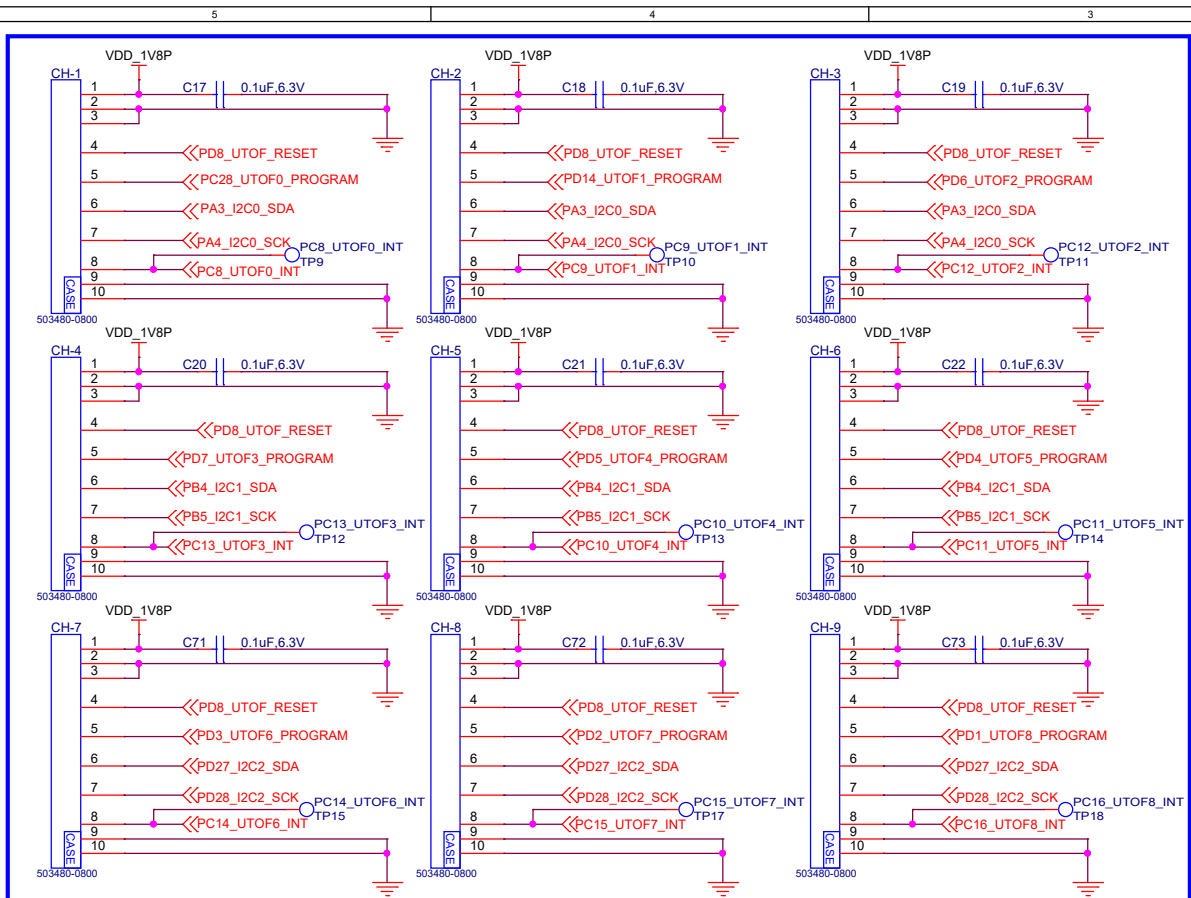
POWER LEDs



STANDARD RED 5mA, 2Vf LEDs #LTST-C193KRKT-5A

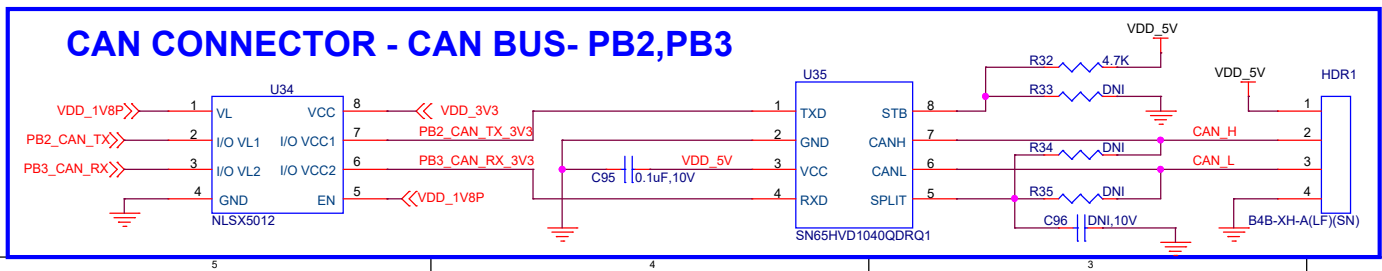
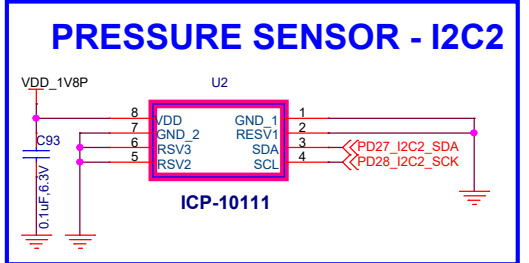
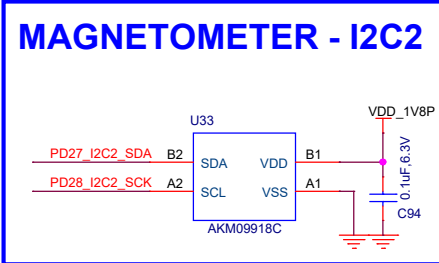
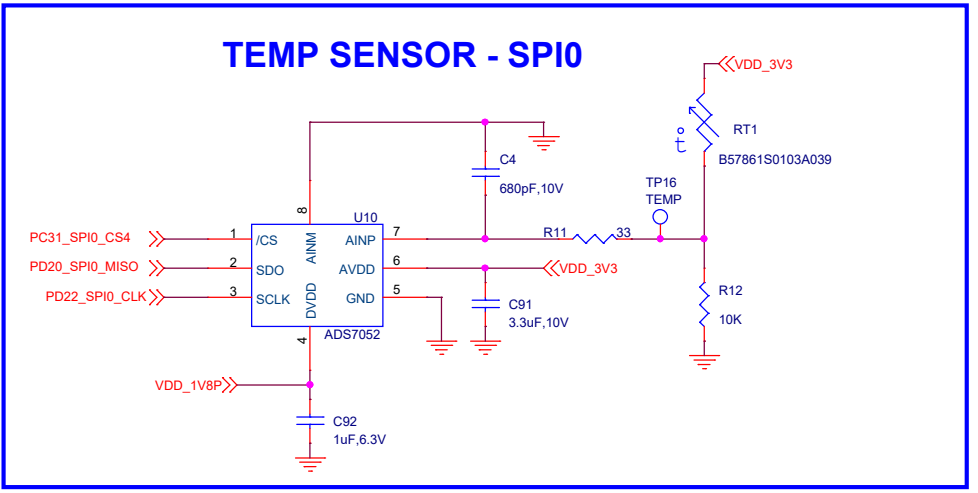
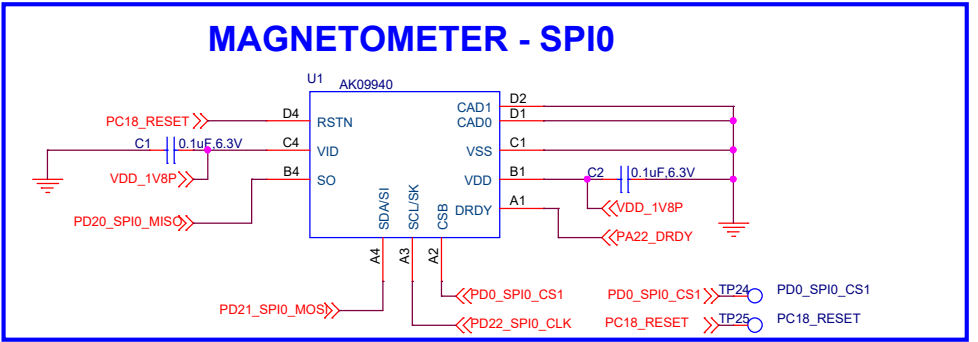


Title POWER SUPPLY			
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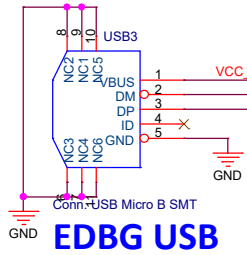
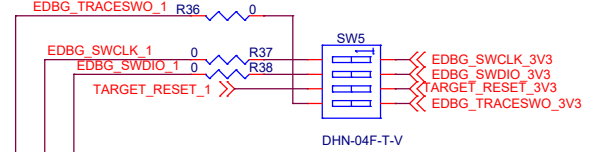
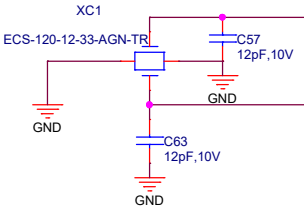
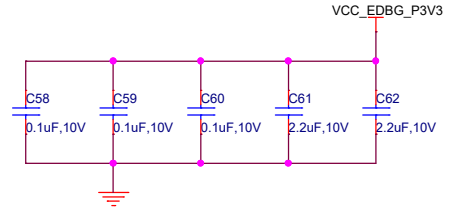
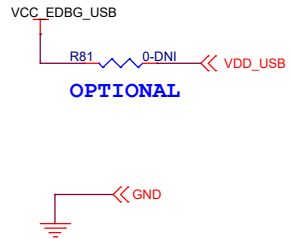
CHIRP SENSOR CONNECTOR (I2C0, I2C1, I2C2 - ONE I2C CONNECTED TO 3 CONNECTORS)

NOTE: Pin # 9 and 10 are Case/body of connector and connected to Ground.

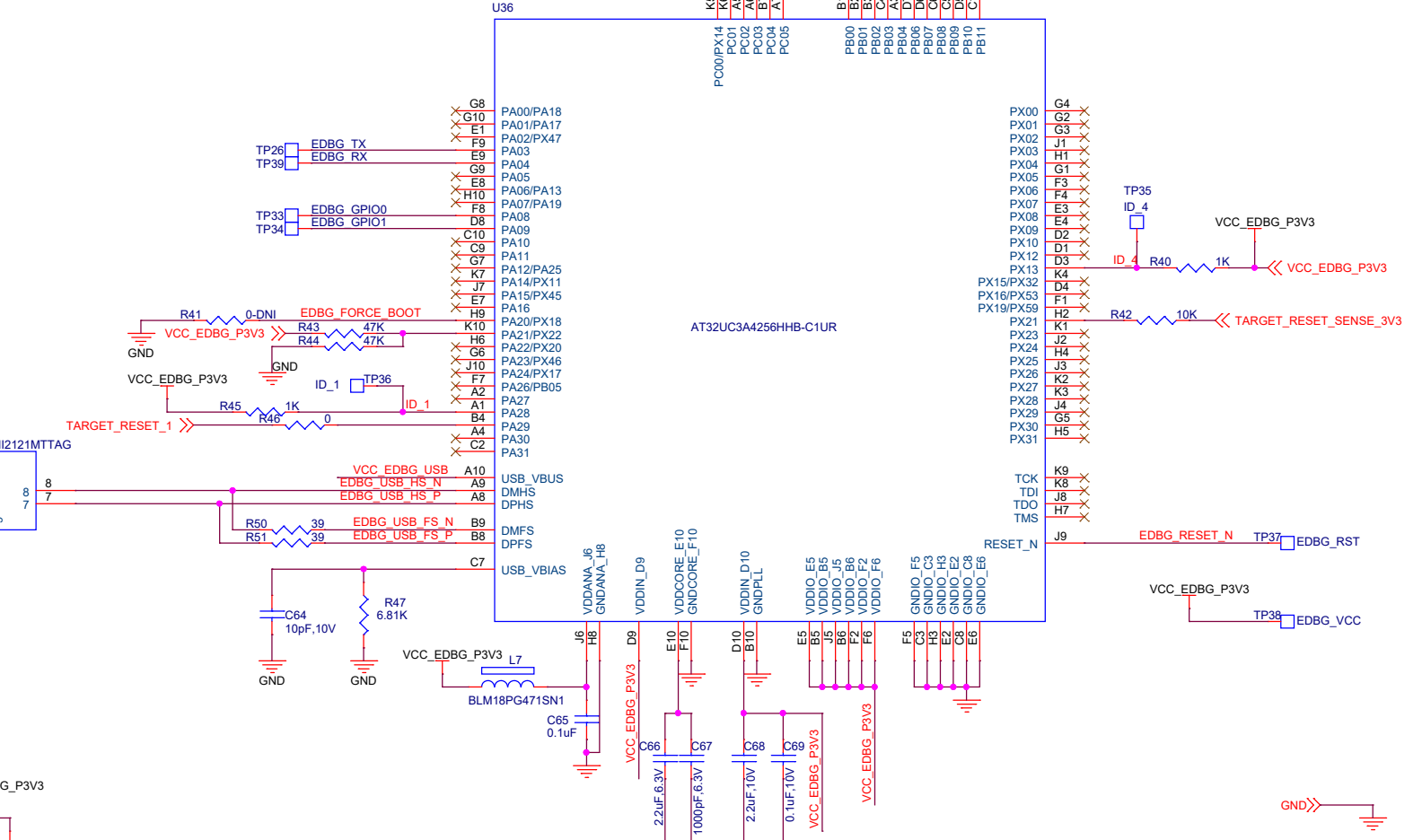
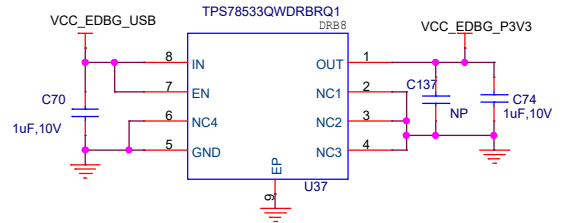


Title			
SENSORS			
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MOSFET SWITCH FOR USB SUPPLY

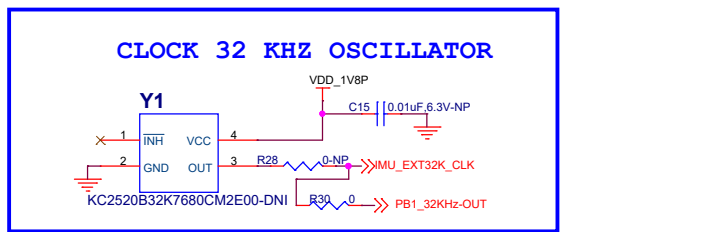
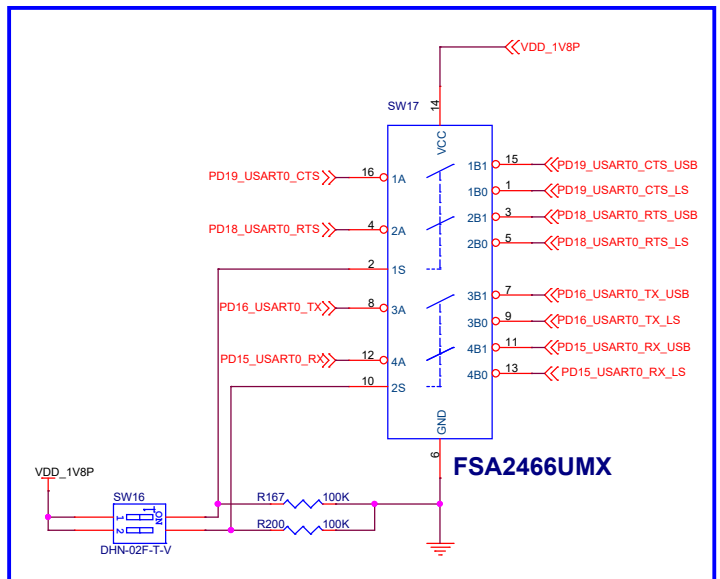
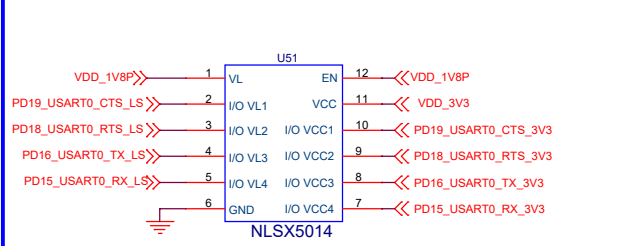
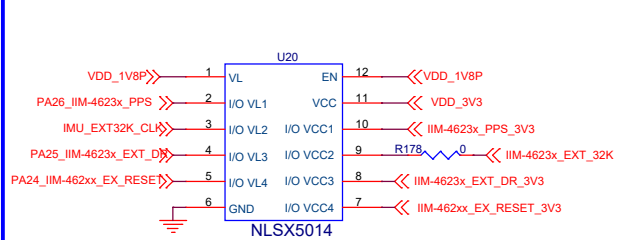
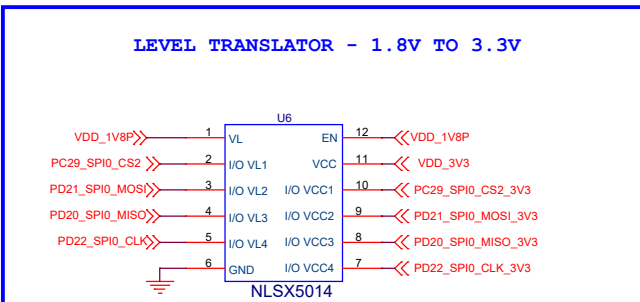
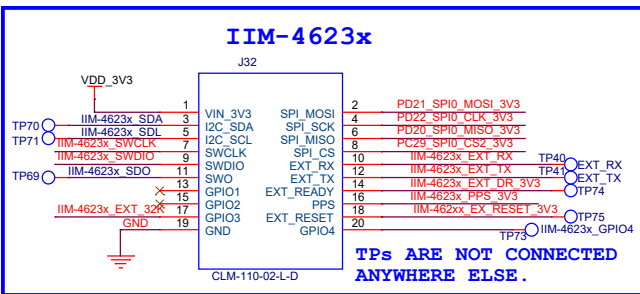
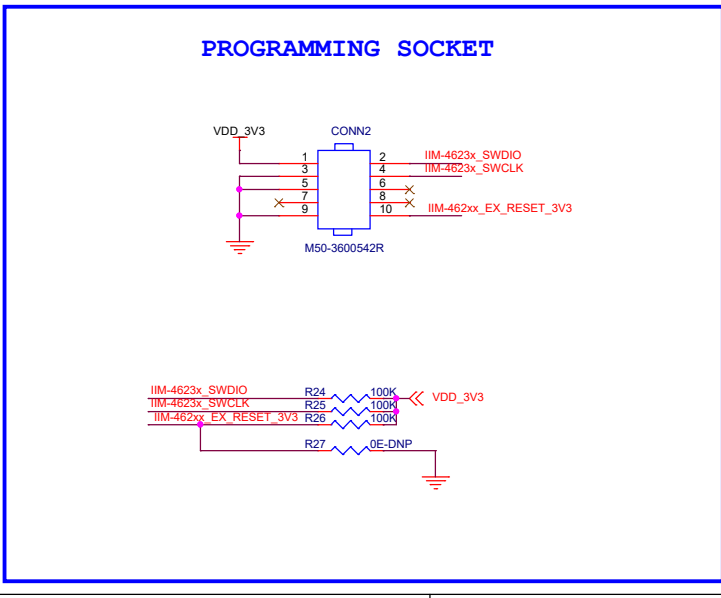
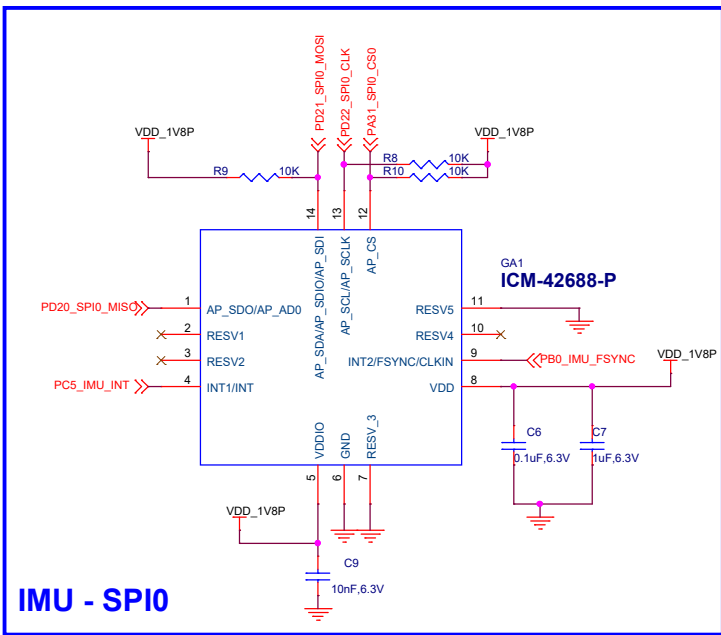


3.3V REGULATOR FOR EDBG



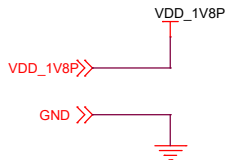
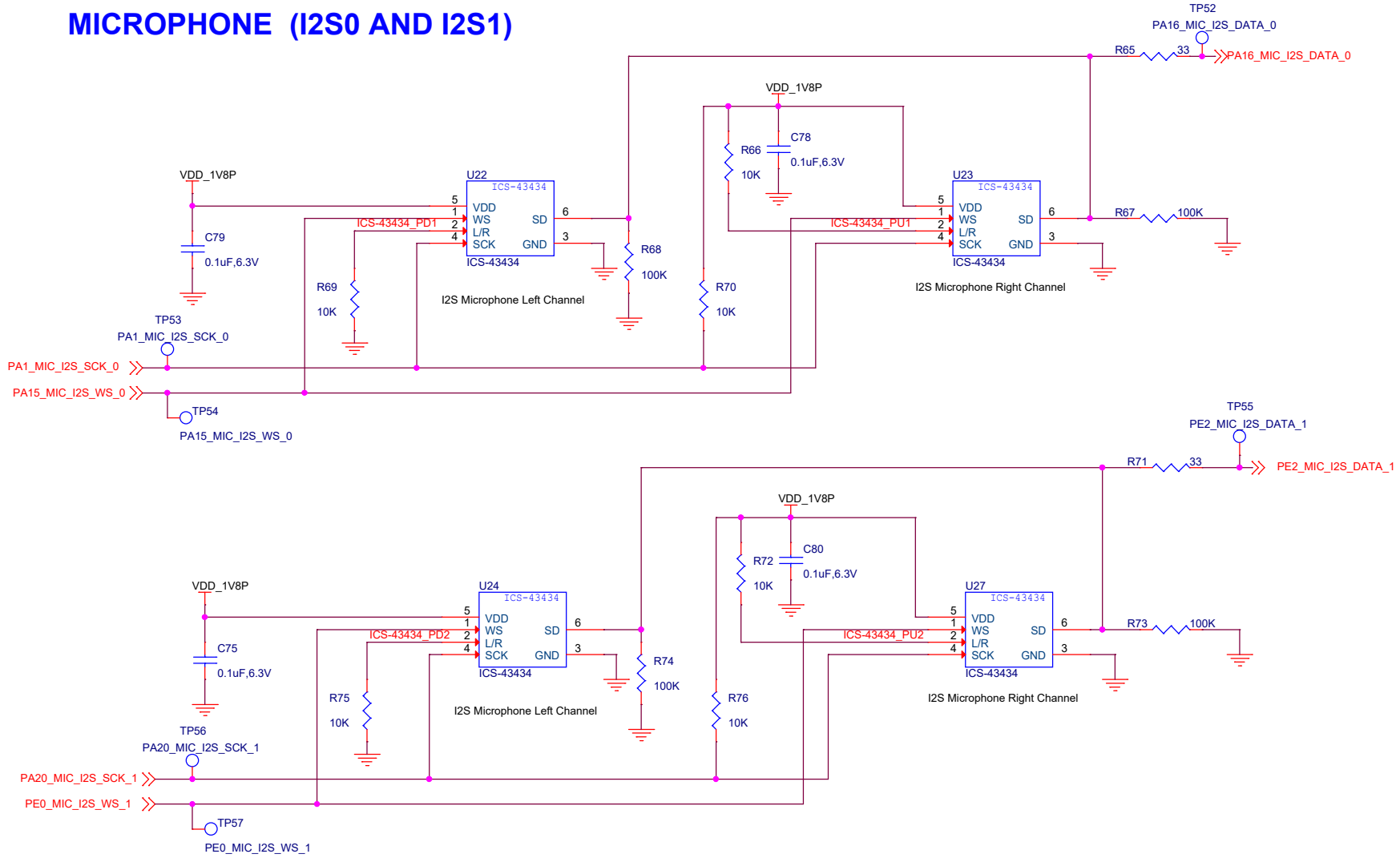
Title			
EDBG (Embedded Debugger)			
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ALL PARTS ON THIS PAGE ARE INTSALLED ON FA BOARD ONLY AND NOT INSTALLED ON REMAINING BOARDS.

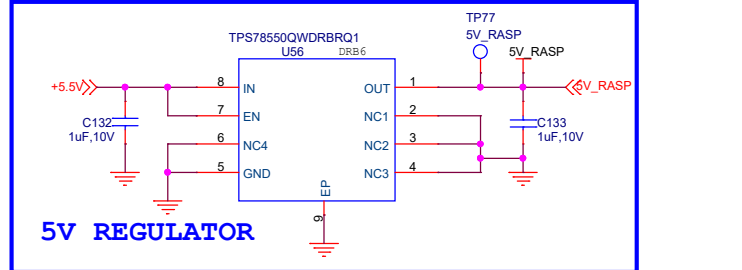
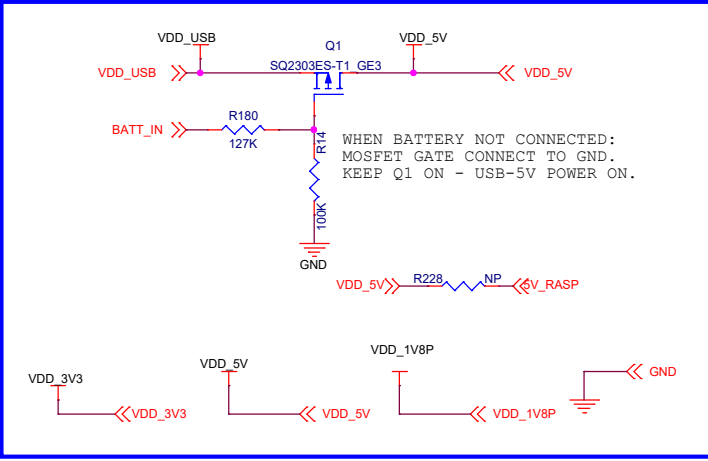
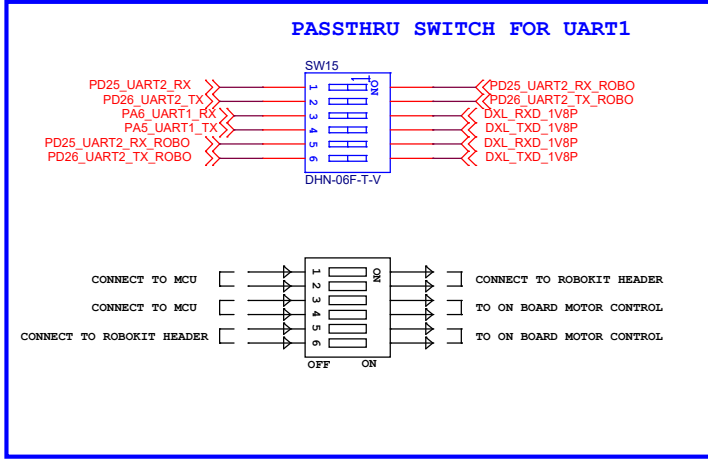
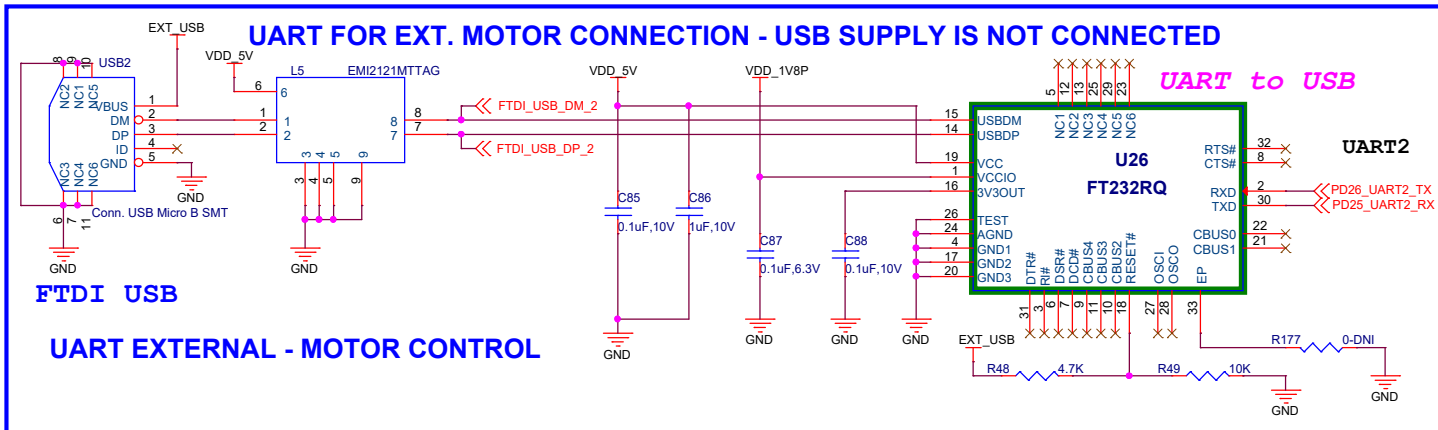
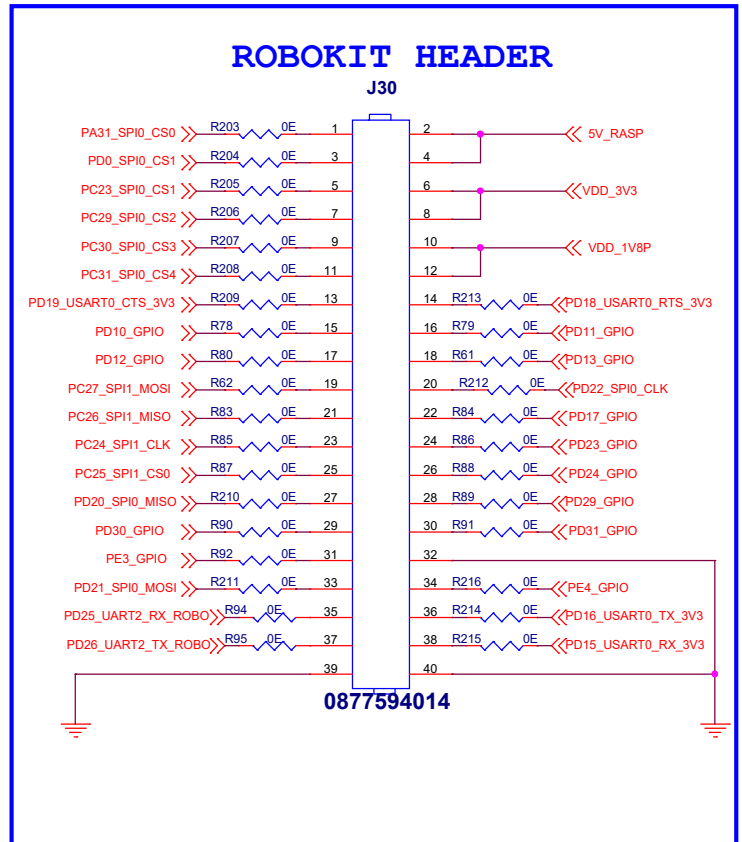
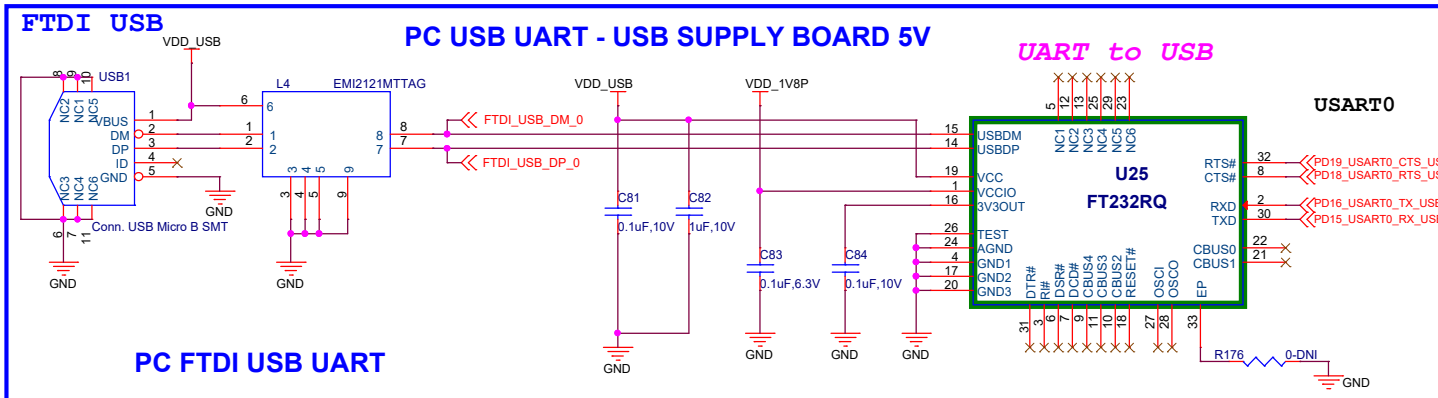


Title IMU, IIM-4622x, IIM-4623x			
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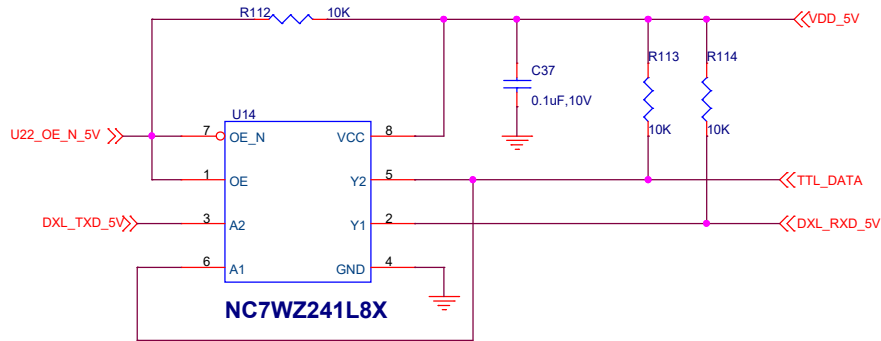
MICROPHONE (I2S0 AND I2S1)



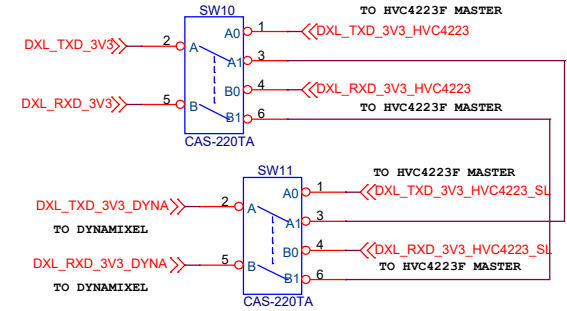
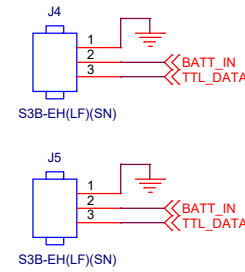
Title MICROPHONE			
Size Custom	Document Number XXXXX	Drawn by INFINITI SOLUTIONS	Rev 5
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DYNAMIXEL MOTOR CONTROL



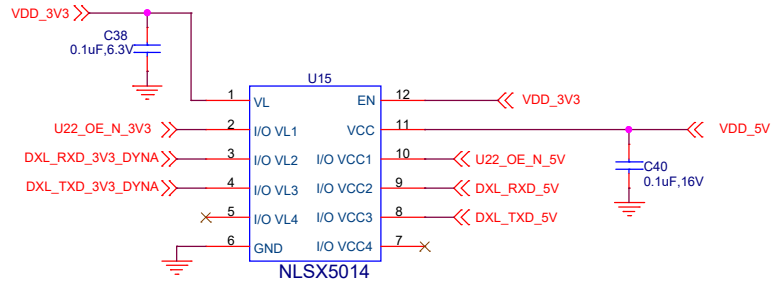
DYNAMIXEL MOTOR CONNECTORS



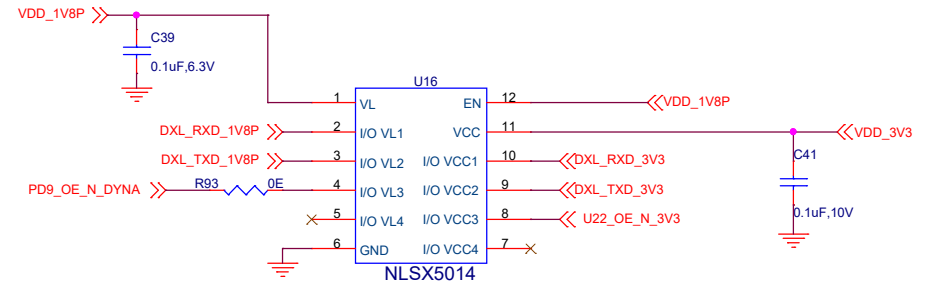
BOTH SWITCH POSITION 0:
MCU/ROBO UART CONNECTED TO HVC 4223F MASTER.
DYNAMIXELS CONNECTED TO HVC4223F SLAVE.

BOTH SWITCH POSITION 1:
MCU/ROBO UART CONNECTED TO DYNAMIXELS.
HVCs NOT CONNECTED.

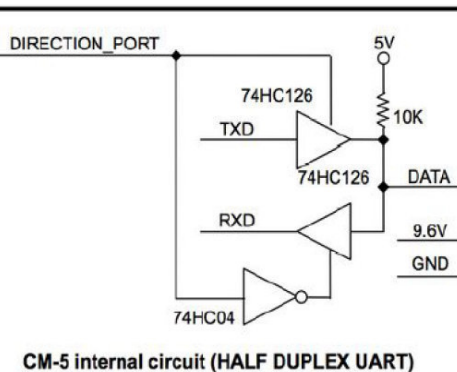
5V TO 3.3V LEVEL TRANSLATION



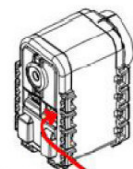
3.3V TO 1.8V LEVEL TRANSLATION



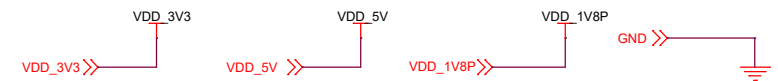
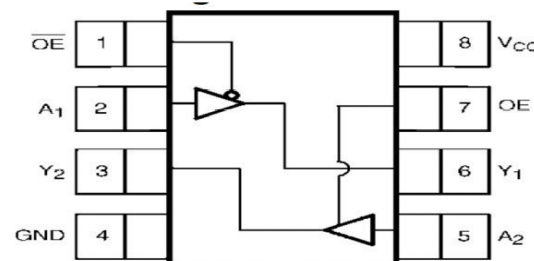
U14 connection Details



CM-5 internal circuit (HALF DUPLEX UART)

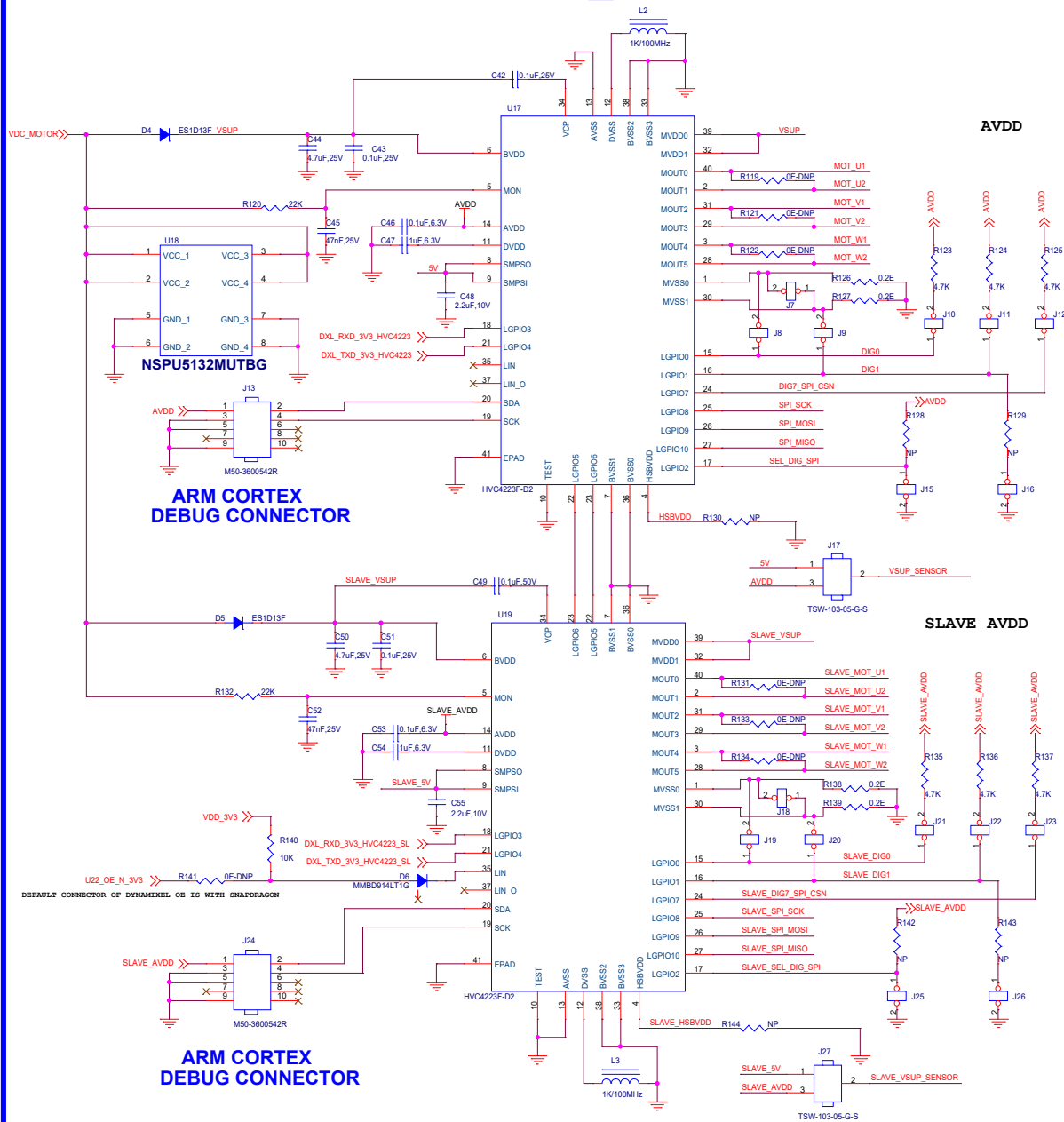


U14 Connection Details

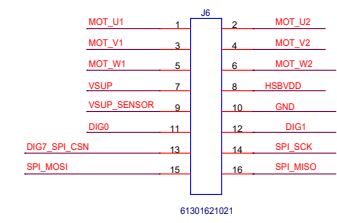


Title			
DYNAMIXEL MOTOR CONTROL			
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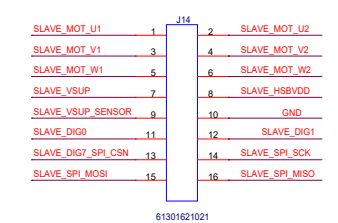
HVC4223FX2_MOTOR DRIVER



MASTER MOTOR AND SENSOR CONNECTOR

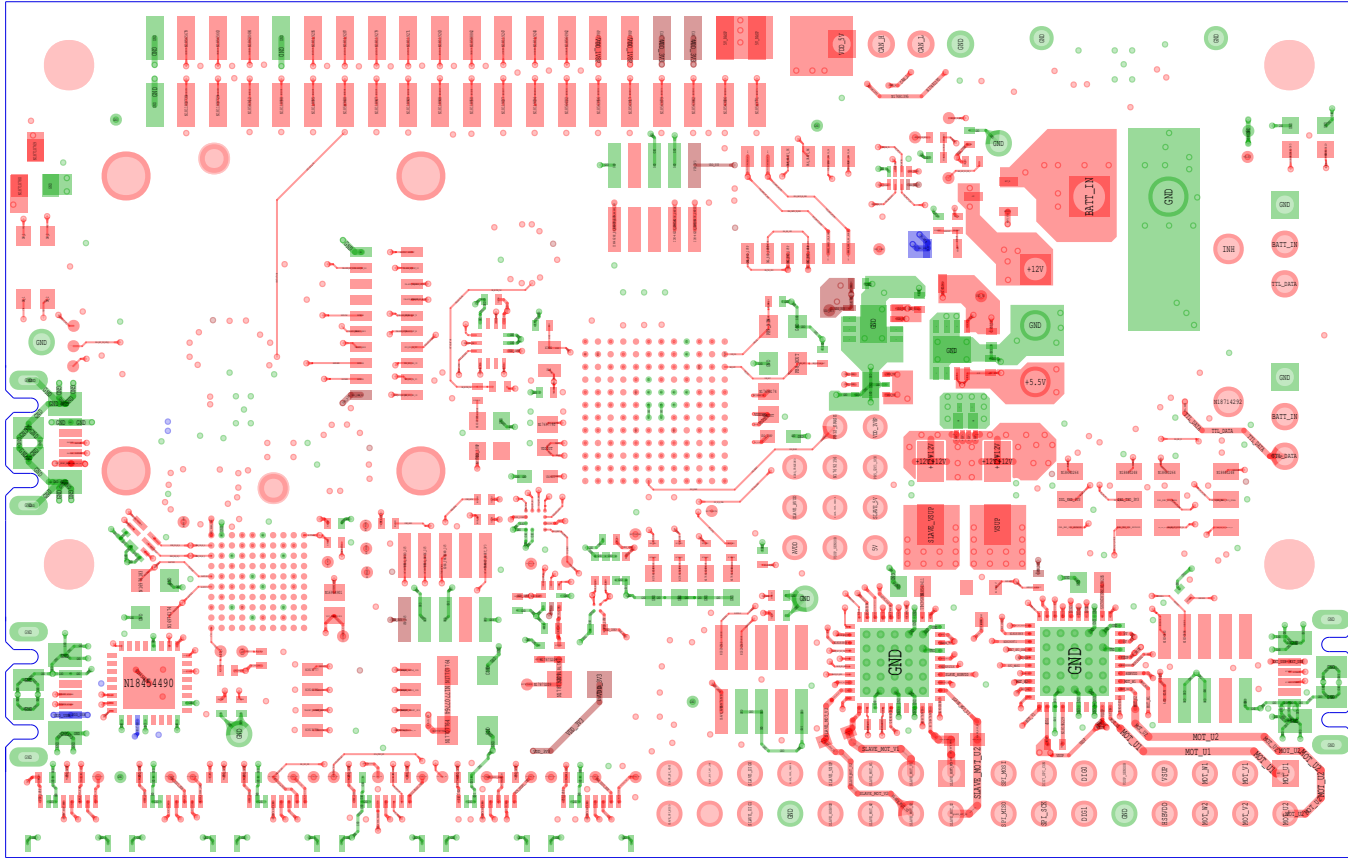


SLAVE MOTOR AND SENSOR CONNECTOR

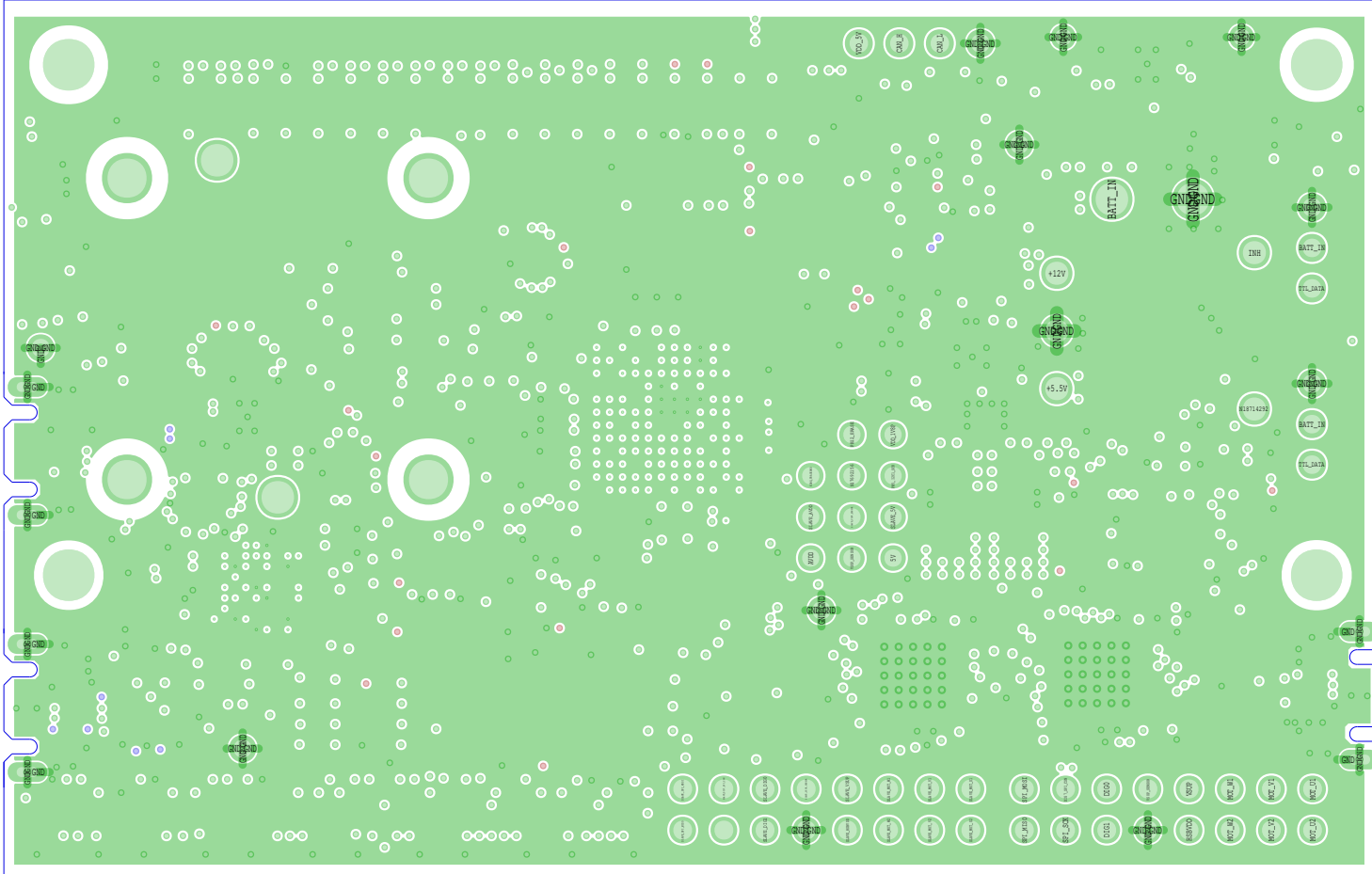


WE HAVE USED 0402 SMD FOOTPRINT FOR ALL 2PIN JUMPERS IN THIS PAGE DUE TO SPACE LIMITATIONS.

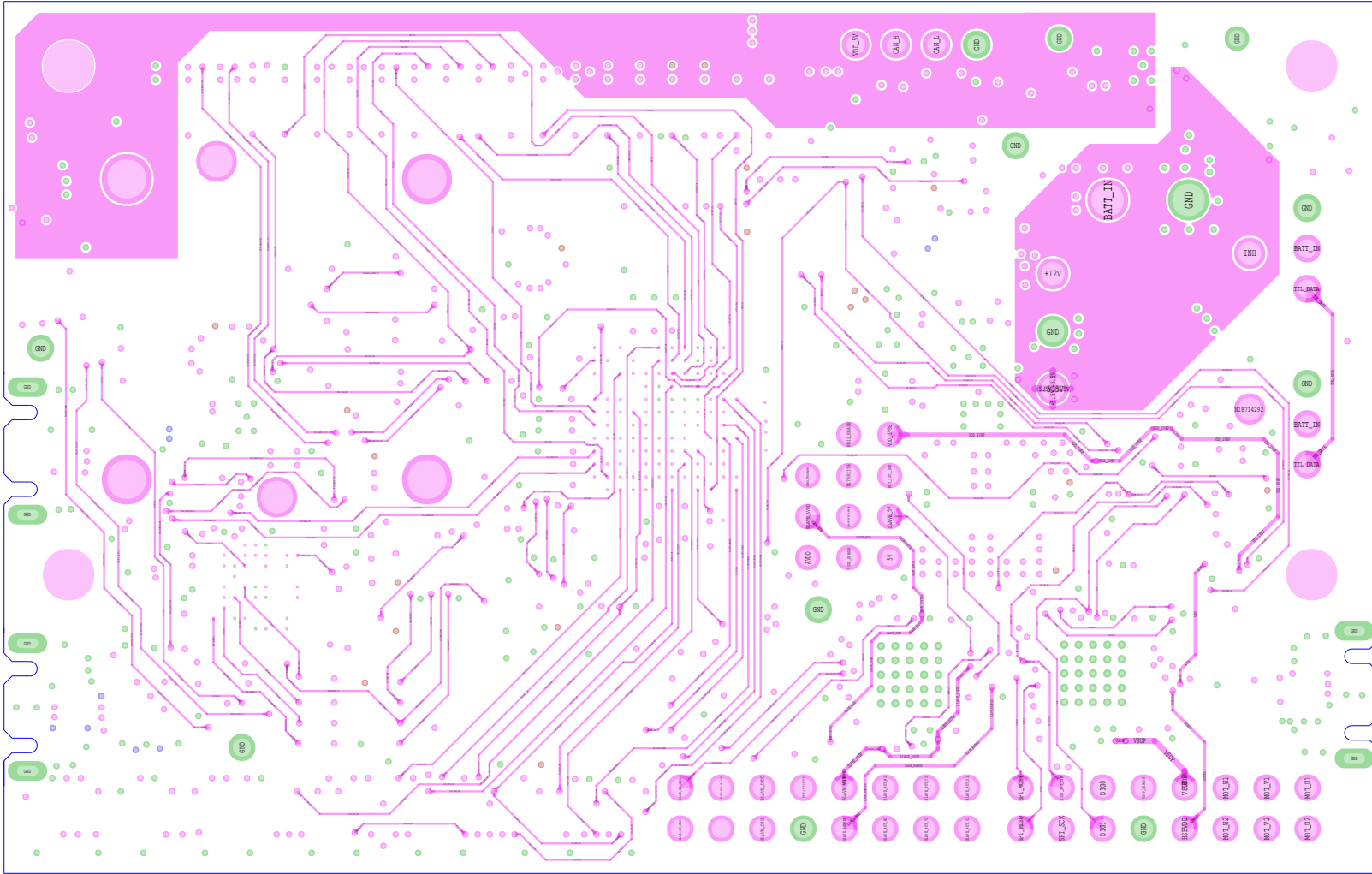




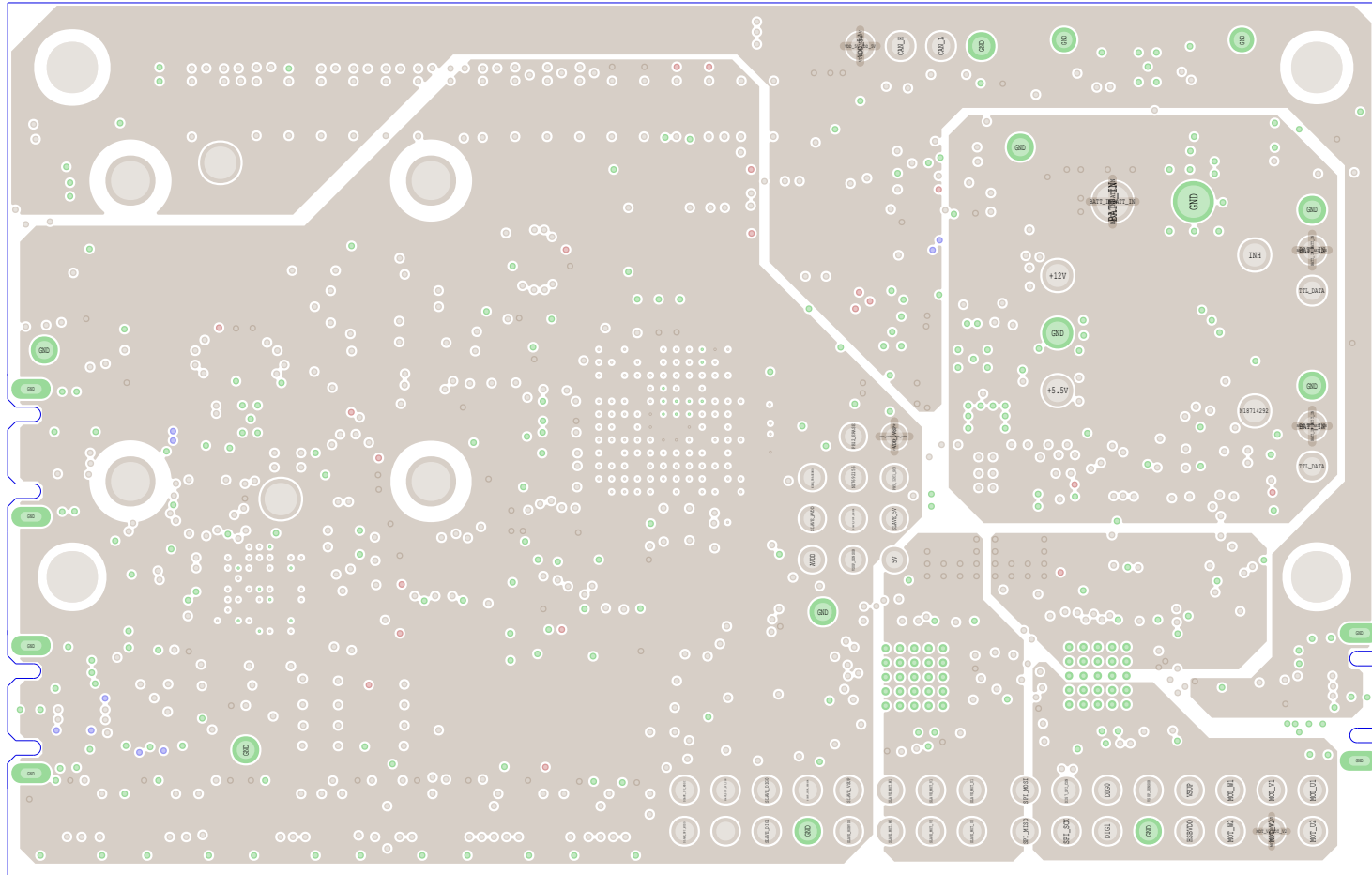
L1-COMPONENT SIDE



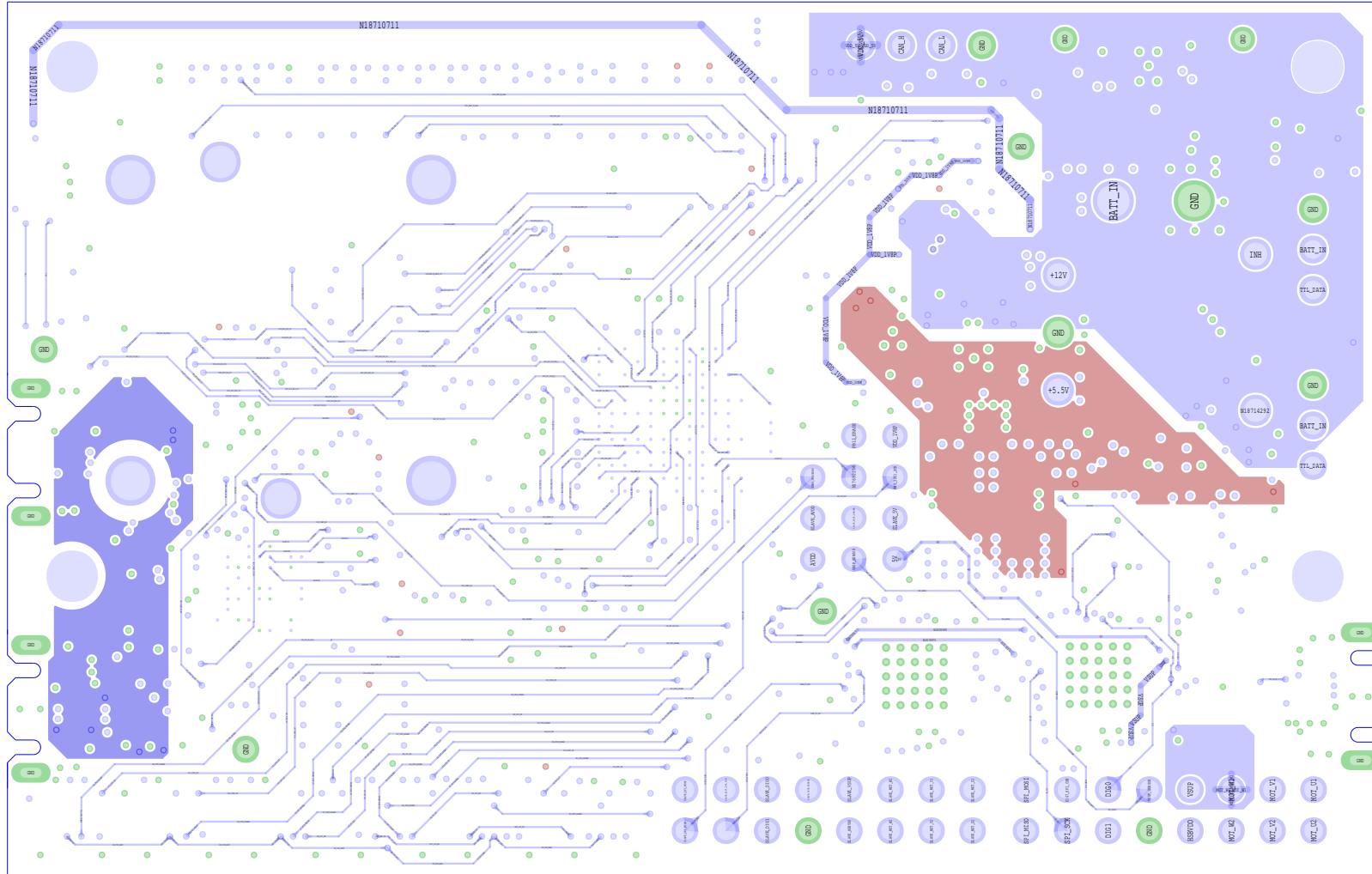
L2-GND PLANE



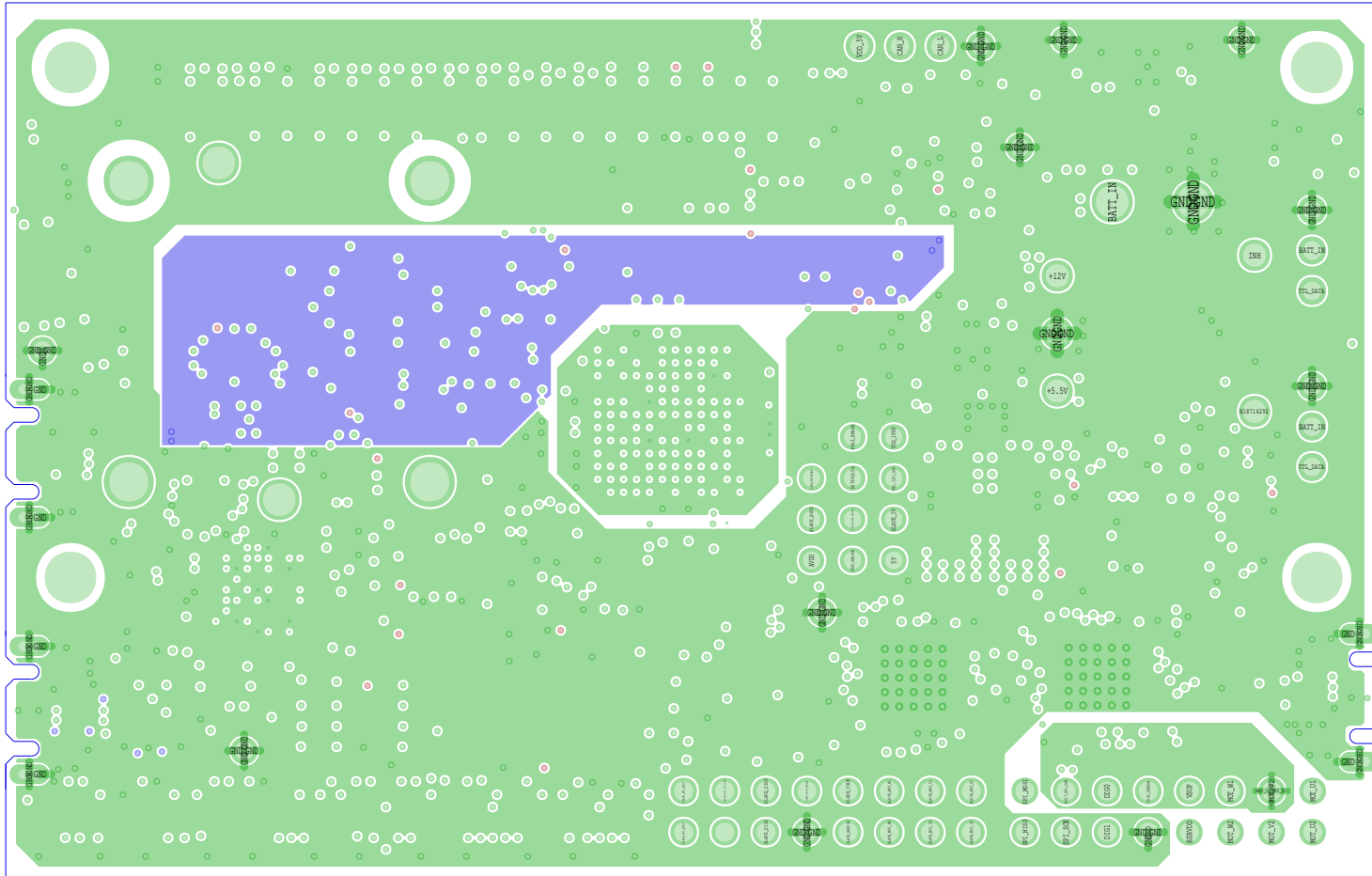
L3-IN-1



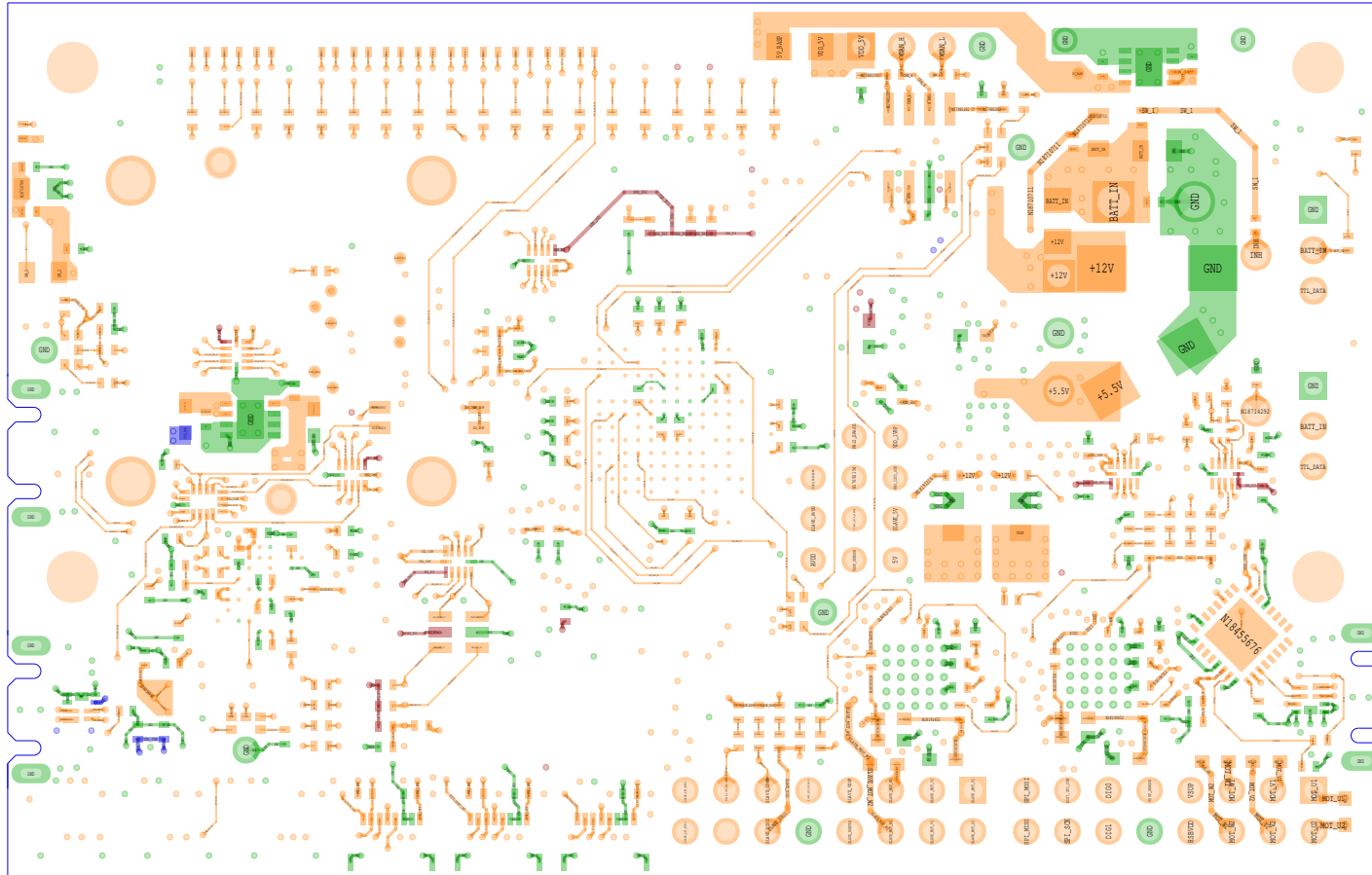
L4-VDD PLANE



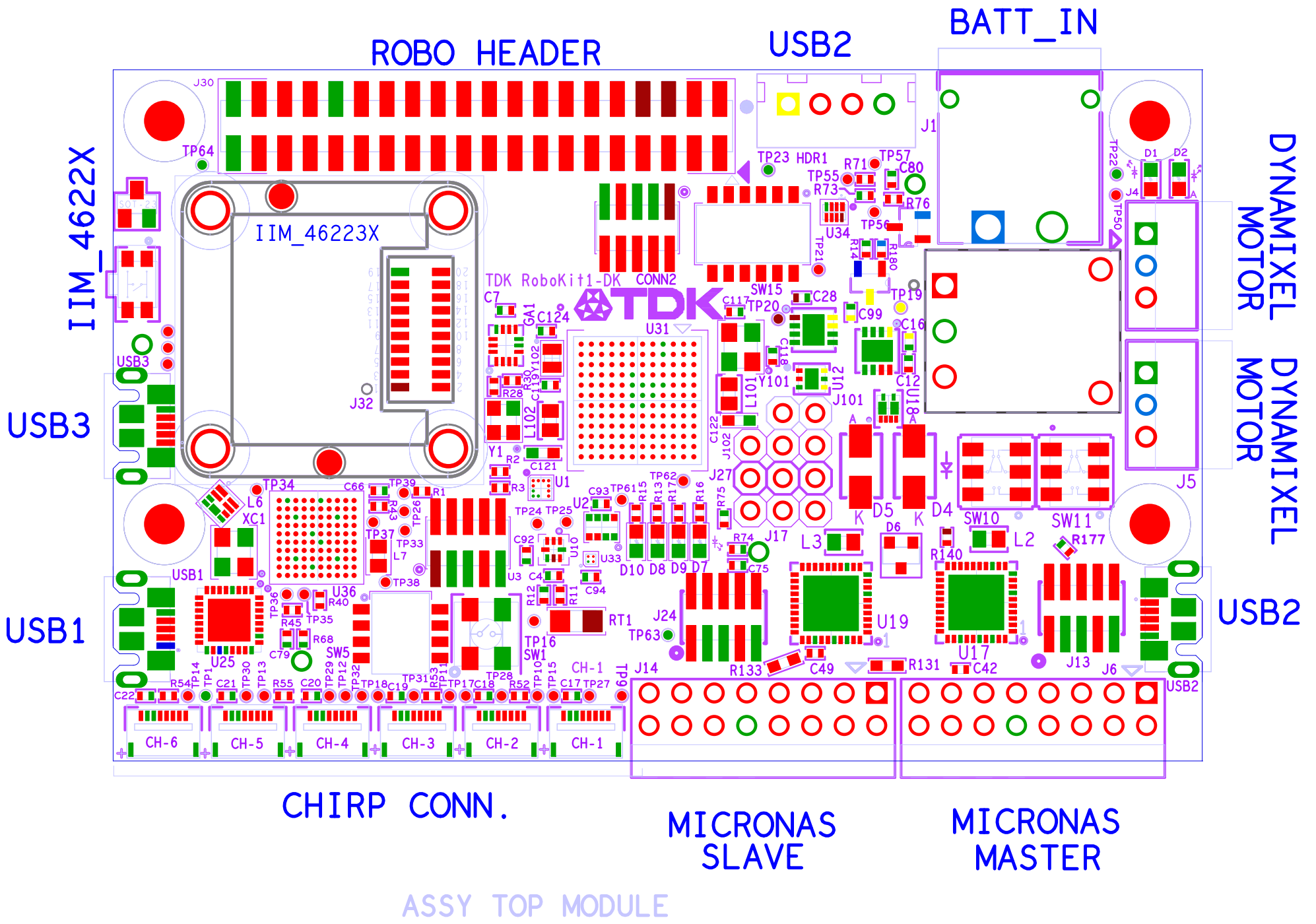
L5-IN-2

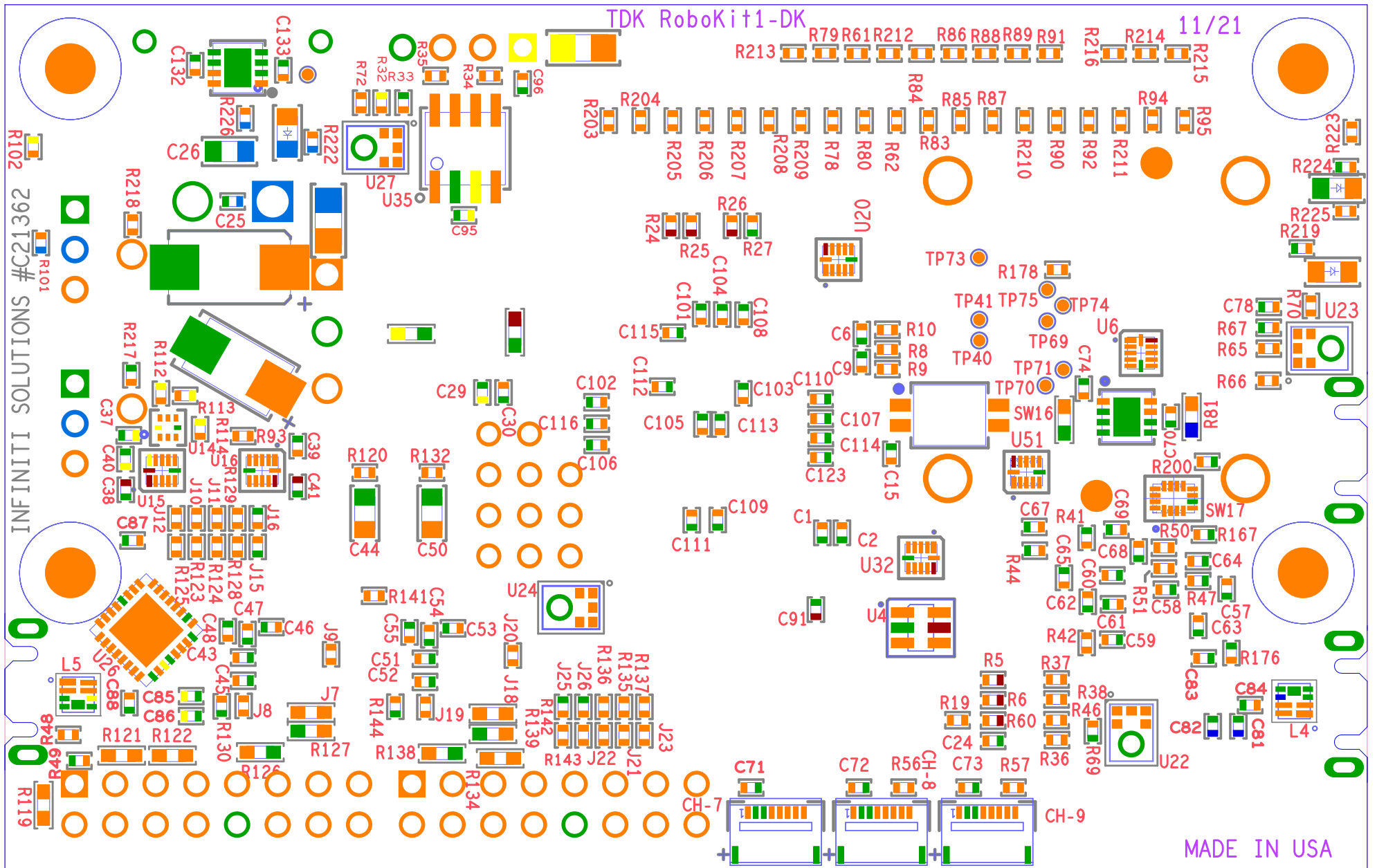


L6-GND PLANE



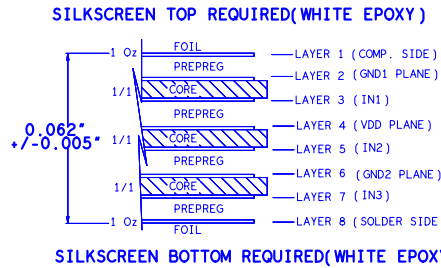
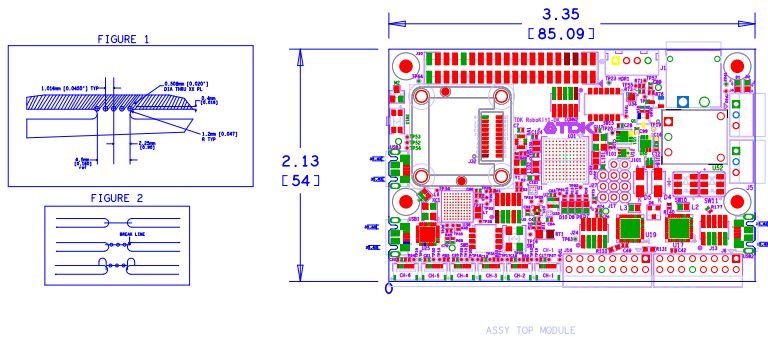
L8-BOTTOM SIDE





ASSY & SILK BOTTOM
 (VIEW FROM BOTTOM SIDE)

- *PLEASE SHIP THE BARE PCB IN PANELIZED FORM.
- *PANELIZATION SCHEME MUST BE APPROVED BY THE IS MANUFACTURING ENGINEER BEFORE BEGINNING THE ACTUAL FABRICATION PROCESS.
- *GLOBAL FIDUCIALS TO BE ADDED BY FAB HOUSE WHILE DOING THE PANELIZATION.
- *PLS. SEND US PANELIZED GERBER DATA FOR FURTHER DATA PROCESSING.
- *MOUSE BYTE SHOULD BE USE FOR DE-PANELIZATOPN(FIGURE 1,2)



DFM ANALYSIS		
MINIMUM AIRGAP	LINE/LINE	0.005"
	LINE/DRILL	0.005"
	DRILL/DRILL	0.005"
	MIN. TRACE WIDTH	0.005"
	MIN. DRILL	0.0059"
	FILLED VIAS	YES
	IMPEDANCE	NO

NOTES: - (UNLESS OTHERWISE SPECIFIED,UNITS ARE IN INCH)

1. PCB MATERIAL: HI TEMP. FR4 (170C Tg)
2. PRIOR APPROVAL IS REQUIRE BEFORE CHANGING THE PCB MATERIAL.
3. PLATING: "3-7MICRO INCHES OF GOLD FLASH OVER 100-200 MICRO INCHES OF NICKEL".
4. ALL PTH HOLES PLATED 1MIL COPPER MIN. (UNLESS OTHERWISE STATED.)
5. WARP OR TWIST OF BOARD SHALL NOT EXCEED 0.005 INCH PER INCH.
6. MOUSE BYTE SHOULD BE USE FOR DE-PANELIZATOPN (FIGURE 1,2).
7. DRILL MUST BE FROM TOP SIDE ONLY.
8. SOLDER MASK IS REQUIRED BETWEEN ALL DEVICE PADS.
9. SOLDERMASK THICKNESS SHOULD BE LESS THAN 20um ON TOP OF COPPER CIRCUIT PATTERN.
10. SOLDERMASK BOTH SIDE WITH BLACK.
11. FOR SYMBOLS "A" FILLED WITH NON-CONDUCTIVE EPOXY & PLATED SHUT(FHS: 0.004)

FINGER PLATING: N/A		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN Millimeter TOLERANCES ARE .XXX = .005 .XX = .01		INFINITI SOLUTIONS		3910 N,FIRST STREET, San Jose, CA 95134 Phone (408) 923-7300 FAX (408) 251-5431	
MATERIAL: HIGH-TEMP- FR4		DSNR: SMM/ARJ	DATE: 11/09/21	CUSTOMER NAME: TDK INVENSENSE		DEVICE: TDK RoboKit1-DK	
SOLDER MASK: BLACK		CHECKED:	DATE:	DESIGN NO: C21362		FAB REV: 1	
LAYERS: 8		POSITIONS: 1		SCALE 1/1		SHEET 1 OF 1	
		DESIGN MATRIX	X ↔ Y ↓			SIZE: D	
		STEP	-----				

CUSTOMER: INVENSENSE		C21362-TDK RoboKit1-DK		DATE: 11/02/21	REV 5	11/1/2021
Value	PCB Footprint	Part Reference	Quantity	Manufacturer	Manufacture P/N	Remark
0.1uF,6.3V	RC0402	C1,C2,C6,C17-C22,C38,C39,C46,C53,C71-C73,C75,C78-C80,C83,C87,C93,C94,C101-C116	40	TDK	CGA2B1X7R1C104K050BC	
680pF,10V	RC0402	C4	1	TDK	CGA2B2X7R1H681K050BA	
1uF,6.3V	RC0402	C7,C30,C47,C54,C92,C123	6	TDK	CGB2A1X6S1A105K033BC	
10nF,6.3V	RC0402	C9	1	TDK	C1005X7R1C103K050BA	
1uF,10V	RC0402	C12,C16,C28,C29,C70,C74,C82,C86,C99,C132,C133	11	TDK	CGB2A1X6S1A105K033BC	
0.01uF,6.3V-NP	RC0402	C15	1	KEMET	C0402C103K9ACTU	DNP
0.1uF,10V	RC0402	C24,C37,C41,C58-C60,C69,C81,C84,C85,C88,C95	12	TDK	CGA2B1X7R1C104K050BC	
0.1uF,25V	RC0402	C25,C42,C43,C51	4	TDK	C1005X5R1E104K050BC	
10uF,25V	0805	C26	1	TDK Corporation	CGA4J1X7S1E106K125AC	
0.1uF,16V	RC0402	C40	1	TDK	CGA2B1X7R1C104K050BC	
4.7uF,25V	0805	C44,C50	2	TDK	CGA4J1X7R1E475K125AC	
47nF,25V	RC0402	C45,C52	2	TDK Corporation	C1005X7R1E473K050BC	
2.2uF,10V	RC0402	C48,C55,C61,C62,C68	5	TDK	C1005X5R1A225K050BC	
0.1uF,50V	RC0402	C49	1	TDK	CGA2B3X7R1H104K050BB	
12pF,10V	RC0402	C57,C63,C117,C118	4	KEMET	C0402C120J8GACTU	
10pF,10V	RC0402	C64	1	KEMET	C0402C100C8GACTU	
0.1uF	RC0402	C65	1	TDK	CGA2B1X7R1C104K050BC	
2.2uF,6.3V	RC0402	C66	1	TDK	C1005X5R1A225K050BC	
1000pF,6.3V	RC0402	C67	1	KEMET	C0402C102K9ACTU	
3.3uF,10V	RC0402	C91	1	TDK Corporation	C1005X5R1A335K050BC	
DNI,10V	RC0402	C96	1	DNP	DNP	
9pF,10V-DNI	RC0402	C119,C124	2	AVX	0402YA9R0DAT2A	DNI
4.7uF,6.3V	0603	C121,C122	2	TDK	CGB3B1X5R1A475K055AC	
100uF	7343	C125	1	KEMET	T491X107K025A17280	
100uF	6032	C134	1	KEMET	T489C107M010ATE500	
NP	0603	C135-C137	3	DNP	DNP	DNP
503480-0800	503480-0800	CH-1-CH-9	9	MOLEX	5034800800	
M50-3600542R	CONN-2X5P-1_27MM-FTSH	CONN2,J13,J24,U3	4	Harwin Inc.	M50-3600542R	
LED	led_0603	D1,D2,D7-D10	6	Stanley Electric	BR1111C-TR	
ES1D13F	es1d13f	D4,D5	2	Diodes Incorporated	ES1D-13-F	ES1DHE3_A/(Vishay General Semiconductor - Diodes Division)ALTERNATE APPROVED
MMBD914LT1G	SOT95P240X110-3N	D6	1	ON SEMI	MMBD914LT1G	BAS19LT1G(ON SEMI)ALTERNATE APPROVED
ICM-42688-P	LGA-14	GA1	1	TDK	ICM-42688-P	CSP
B4B-XH-A(LF)(SN)	CONN-4X1-P2_5-B4B-XH-A	HDR1	1	JST Sales America Inc.	B4B-XH-A(LF)(SN)	
XT30PW-M	XT30PW-M	J1	1	AMASS	XT30PW-M	
S3B-EH(LF)(SN)	CONN-3X1-P2_5-S3B-EH	JA,J5	2	JST Sales America Inc.	S3B-EH(LF)(SN)	
61301621021	CONN-2X8P-2_54MM-61301621021	J6,J14	2	Würth Elektronik	61301621021	
JUMPER	0603	J7,J18	2	YAGEO	RC0603JR-070RL	
JUMPER	RC0402	J8-J12,J15,J16,J19-J23,J25,J26	14	YAGEO	RC0402JR-070RL	
TSW-103-05-G-S	CA40_3P	J17,J27	2	Samtec Inc.	TSW-103-05-G-S	
0877594014	MOLEX-0877594014	J30	1	Molex	87759-4014	
CLM-110-02-L-D	FLAMENCOQFN	J32	1	Samtec Inc.	CLM-110-02-L-D	
JUMPER	68000-102HLF	J101	1	Amphenol ICC (FCI)	68000-102HLF	
JUMPER	ca40_3P	J102	1	Samtec Inc.	TSW-103-07-G-S	
1K/100MHz	L0603	L2,L3	2	MURATA	BLM18HG102SN1D	
EMI2121MTTAG	8-WDFDN	L4-L6	3	ON Semiconductor	SZEM12121MTTAG	
BLM18PG471SN1	L0603	L7,L101,L102	3	Murata Electronics	BLM18PG471SN1D	
SQ2303ES-T1_GE3	SOT-23-3-PMV48XP	M1,Q1	2	Vishay Siliconix	SQ2303ES-T1_GE3	
MVMBF0201NLT1G	sot-23	M2	1	onsemi	MVMBF0201NLT1G	
100K	RC0402	R1,R2,R5,R6,R14,R24-R26,R67,R68,R73,R74,R167,R200	14	YAGEO AMERICA	RC0402FR-07100KL	
DNI	RC0402	R3,R33-R35	4	DNP	DNP	
10K	RC0402	R8-R10,R12,R42,R49,R66,R69,R70,R72,R75,R76,R112-R114,R140,R222-R224	19	YAGEO	RC0402FR-0710KL	
33	RC0402	R11,R65,R71	3	YAGEO	RC0402FR-0733RL	
50	RC0402	R13,R15-R17	4	YAGEO	RC0402JR-0750RL	
0	RC0402	R19,R30,R36-R38,R46,R178	7	YAGEO	RC0402FR-070RL	
0E-DNP	RC0402	R27,R141	2	YAGEO	RC0402FR-070RL	DNP
0-NP	RC0402	R28	1	YAGEO	RC0402FR-070RL	DNP
4.7K	RC0402	R32,R48,R123-R125,R135-R137	8	VENKEL	CRO402-16W-4701FT	
1K	RC0402	R40,R45,R60	3	PANASONIC	ERJ-2RKF1001X	
0-DNI	RC0402	R41,R176,R177	3	YAGEO	RC0402FR-070RL	DNI
47K	RC0402	R43,R44	2	YAGEO	RC0402FR-0747KL	
6.81K	RC0402	R47	1	YAGEO	RC0402FR-076K81L	
39	RC0402	R50,R51	2	YAGEO	RC0402FR-0739RL	
2.2K	RC0402	R52-R57	6	YAGEO	RC0402FR-072K2L	
0E	RC0402	R61,R62,R78-R80,R83-R95,R203-R216,R225	33	YAGEO	RC0402FR-070RL	
0-DNI	0603	R81	1	Yageo	RC0603JR-070RL	DNP
330	RC0402	R101	1	YAGEO	RC0402FR-07330RL	
160	RC0402	R102	1	YAGEO	RC0402FR-07160RL	
0E-DNP	0603	R119,R121,R122,R131,R133,R134	6	Yageo	RC0603JR-070RL	DNP
22K	RC0402	R120,R132	2	YAGEO	RC0402JR-0722KL	

0.2E	0603	R126,R127,R138,R139	4	CTS Resistor Products	73L2R20J	
NP	RC0402	R128-R130,R142-R144,R218,R219	8			DNP
127K	RC0402	R180	1	PANASONIC	ERJ-2RKF1273X	
118E	RC0402	R217	1	TE Connectivity Passive Product Susumu	CPF0402B118RE1 RG1005P-1180-B-T5	CHANGE 117 OHM TO 118 OHM MFG & MFG P/N AS PER LIABILITY APPROVAL
50K	RC0402	R226	1	PANASONIC	ERJ-2RKF4992X	KOA # RK73H1ERTTP4992F(ALTERNATE APPROVED)
NP	0805_1206	R227,R228	2	DNP	DNP	DNP
B5786150103A039	0805_1206	RT1	1	TDK	B5786150103A039	CSP
7914J-1-000E	SW-SPST-7914J-1-000E	SW1	1	Bourns Inc.	7914J-1-000E	
DHN-04F-T-V	DHN-04F-T-V	SW5	1	Diptronics	DHN-04F-T-V	
DHN-06F-T-V	DHN-06F-T-V	SW15	1	Diptronics	DHN-06F-T-V	KAN1106RT(E-Switch)ALTERNATE APPROVED
CAS-220TA	CAS-220TA6-P1_75-5_4X3_9-H2_5	SW10,SW11	2	Nidec Copal Electronics	CAS-220TA	
PTS841 GM SMTR LFS	SW-SPST-3_5X3_6MM-PTS841	SW13	1	C&K	PTS841 GM SMTR LFS	
DHN-02F-T-V	DHN-02F-T-V	SW16	1	Diptronics	DHN-02F-T-V-T/R	
FSA2466UMX	UMLP16-P0_4-1_8X2_6-H0_55	SW17	1	ON Semiconductor / Fairchild	FSA2466UMX	
GND	TPS30	TP1,TP22,TP23,TP63,TP64	5			
PC8_UTOF0_INT	TPS30	TP9	1			
PC9_UTOF1_INT	TPS30	TP10	1			
PC12_UTOF2_INT	TPS30	TP11	1			
PC13_UTOF3_INT	TPS30	TP12	1			
PC10_UTOF4_INT	TPS30	TP13	1			
PC11_UTOF5_INT	TPS30	TP14	1			
PC14_UTOF6_INT	TPS30	TP15	1			
TEMP	TPS30	TP16	1			
PC15_UTOF7_INT	TPS30	TP17	1			
PC16_UTOF8_INT	TPS30	TP18	1			
+5V	TPS30	TP19	1			
+3.3V	TPS30	TP20	1			
+1.8V	TPS30	TP21	1			
PD0_SPIO_CS1	TPS30	TP24	1			
PC18_RESET	TPS30	TP25	1			
EDBG_TX	TPS30	TP26	1			
PA4_I2C0_SCK	TPS30	TP27	1			
PA3_I2C0_SDA	TPS30	TP28	1			
PB5_I2C1_SCK	TPS30	TP29	1			
PB4_I2C1_SDA	TPS30	TP30	1			
PD28_I2C2_SCK	TPS30	TP31	1			
PD27_I2C2_SDA	TPS30	TP32	1			
EDBG_GPIO0	TPS30	TP33	1			
EDBG_GPIO1	TPS30	TP34	1			
ID_4	TPS30	TP35	1			
ID_1	TPS30	TP36	1			
EDBG_RST	TPS30	TP37	1			
EDBG_VCC	TPS30	TP38	1			
EDBG_RX	TPS30	TP39	1			
EXT_RX	TPS30	TP40	1			
EXT_TX	TPS30	TP41	1			
+5.5V	TPS30	TP50	1			
PA16_MIC_I2S_DATA_0	TPS30	TP52	1			
PA1_MIC_I2S_SCK_0	TPS30	TP53	1			
PA15_MIC_I2S_WS_0	TPS30	TP54	1			
PE2_MIC_I2S_DATA_1	TPS30	TP55	1			
PA20_MIC_I2S_SCK_1	TPS30	TP56	1			
PE0_MIC_I2S_WS_1	TPS30	TP57	1			
TST	TPS30	TP61	1			
JTAGSEL	TPS30	TP62	1			
IIM-4623x_SDO	TPS30	TP69	1			
IIM-4623x_SDA	TPS30	TP70	1			
IIM-4623x_SDL	TPS30	TP71	1			
IIM-4623x_GPIO4	TPS30	TP73	1			
IIM-4623x_GPIO1	TPS30	TP74	1			
IIM-4623x_GPIO2	TPS30	TP75	1			
5V_RASP	TPS30	TP77	1			
AK09940	BGA-11-P0_4-1_67X1_67MM	U1	1	AKM Semiconductor Inc.	AK09940	
ICP-10111	TDK-ICP-1011X-LGA8	U2	1	TDK	ICP-10111	CSP
824001-DNI	sot-23-6	U4	1	Würth Elektronik	824001	DNI
NLSX5014	UQFN12-P0_4-2X1_7MM	U6,U15,U16,U20,U32,U51	6	ON Semiconductor	NLSX5014MUTAG	NLSX3014MUTAG(ON SEMI)ALTERNATE APPROVED
ADS7052	X2QFN8-P0_5-1_55X1_55MM	U10	1	Texas Instruments	ADS7052IRUGR	
TPS78533QWDRBRQ1	TDFN-8E-P0_65-3X3MM-MAX31726	U11,U37	2	Texas Instruments	TPS78533QWDRBRQ1	
TLV76718DRVR	WS0N-6-P0_65-2_1X2_1MM	U12	1	Texas Instruments	TLV76718DRVR	
NC7WZ241L8X	MAC08A-8-P0_5-1_6X1_6MM	U14	1	ON Semiconductor / Fairchild	NC7WZ241L8X	
HVC4223F-D2	PQFN40-P0_5-6_1X6_1-H0_9	U17,U19	2	Micronas	HVC4223F-D2	CSP
NSPU5132MUTBG	UDFN6-2X1_8-H0_55	U18	1	ON Semiconductor	NSPU5132MUTBG	
ICS-43434	SPH0645LM4H_6PIN	U22-U24,U27	4	TDK InvenSense	ICS-43434	CSP

FT232RQ	qfn32-P0_5-5X5	U25,U26	2	FTDI, Future Technology Devices Intern	FT232RQ-REEL	
SAME70Q21B	LFBGA-144-P0_8-10X10MM	U31	1	Microchip Technology	ATSAME70Q21B-CNT	
AKM09918C	BGA-4-P0_4-0_76X0_76MM-AK09918C	U33	1	AKM Semiconductor Inc.	AK09918C	
NLSX5012	UDFN8-P0_4-1_8X1_2MM	U34	1	ON Semiconductor	NLSX5012MUTAG	
SN65HVD1040QDRQ1	SOIC-D-8	U35	1	Texas Instruments	SN65HVD1040QDRQ1	
AT32UC3A4256HBB-C1UR	AT32UC3A4256HBB	U36	1	Microchip Technology	AT32UC3A4256HBB-C1UR	
TPS78550QWDRBRQ1	TDFN-8E-P0_65-3X3MM-MAX31726	U50,U56	2	Texas Instruments	TPS78550QWDRBRQ1	
PTH08080WAH	module_PTH08080WAH	U52	1	Texas Instruments	PTH08080WAH	
Conn. USB Micro B SMT	MOLEX_105164-0001	USB1-USB3	3	MOLEX	105164-0001	
ECS-120-12-33-AGN-TR	XTAL_4SMT_3_2x2_5mm	XC1,Y101	2	ECS Inc.	ECS-120-12-33-AGN-TR	
KC2520B32K7680CM2E00-DNI	2_5x2mm-4pin	Y1	1	Kyocera International Inc. Electronic Co	KC2520B32K7680CM2E00	DNP
32.768KHz-DNI	CRYSTAL_2PIN_SMD	Y102	1	ABRACON	ABS07-32.768KHZ-1-T	DNP
BZY55B12_RGB-NP	0805	Z1,Z3	2	Taiwan Semiconductor Corporation	BZY55B12 RYG	DNP
BZY55B6V2-NP	0805	Z2	1	Taiwan Semiconductor Corporation	BZY55B6V2 RYG	DNP
		SHIP LOOSE WITH BOARD	16	SULLINS	SPC02SYAN	
		FOR J3,SHIP LOOSE WITH BOARD	2	SAMTEC	2SN-BK-G	
SNM-100-BK-G	MISC,SPRING SHUNT 2POS 2.54MM	FOR J17,J27	2	SAMTEC	SNM-100-BK-G	

QUANTITY CHANGE