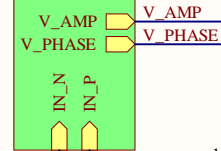
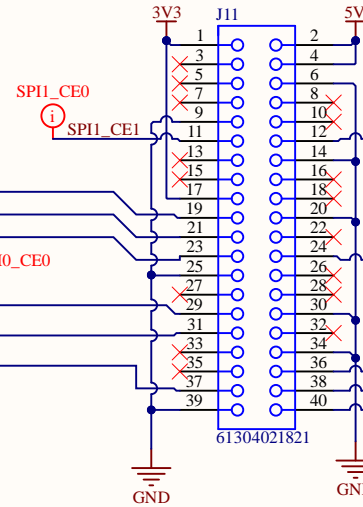
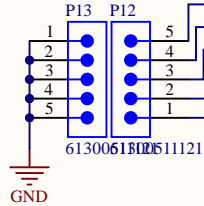
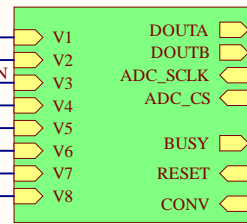


[1] - 1_EIT_RPi

U_3_Phase_Amp
3_Phase_Amp.SchDoc



U_2_ADC
2_ADC.SchDoc

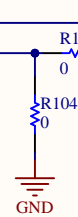
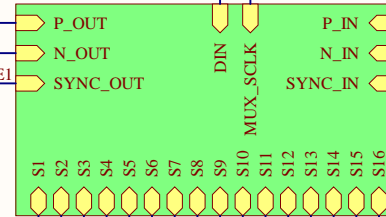


3v3 Power	1	2	5v Power
GPIO 2 (IC1 SDA)	3	4	5v Power
GPIO 3 (IC1 SCL)	5	6	Ground
GPIO 4 (GCLK0)	7	8	GPIO 14 (UART TX)
Ground	9	10	GPIO 15 (UART RX)
GPIO 17 (SPI CE1)	11	12	GPIO 18 (SPI CE0)
GPIO 27	13	14	Ground
GPIO 22	15	16	GPIO 23
3v3 Power	17	18	GPIO 24
GPIO 10 (SPI MOSI)	19	20	Ground
GPIO 9 (SPI MISO)	21	22	GPIO 25
GPIO 11 (SPI SCLK)	23	24	GPIO 8 (SPI CE1)
Ground	25	26	GPIO 7 (SPI CE1)
GPIO 0 (EEPROM SDA)	27	28	GPIO 1 (EEPROM SCL)
GPIO 5	29	30	Ground
GPIO 6	31	32	GPIO 12 (PWM0)
GPIO 13 (PWM1)	33	34	Ground
GPIO 19 (SPI MISO)	35	36	GPIO 16 (SPI CE2)
GPIO 26	37	38	GPIO 20 (SPI MOSI)
Ground	39	40	GPIO 21 (SPI SCLK)

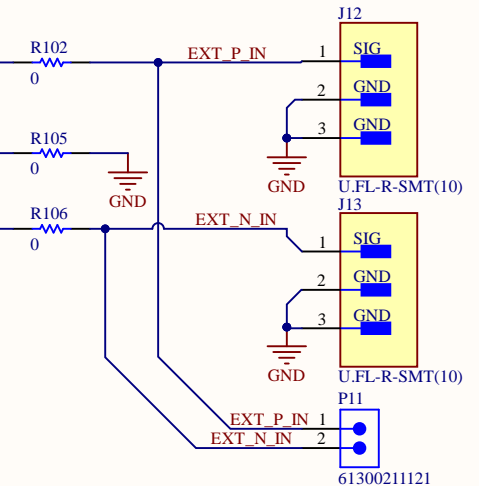
U_5_WG
5_WG.SchDoc



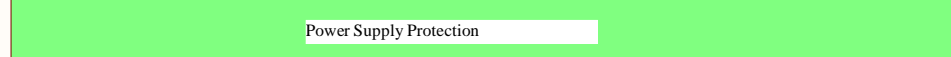
U_6_MUX
6_MUX.SchDoc



CUR_SEN CUR_SEN



U_4_Supply
4_Supply.SchDoc



Title Raspberry Pi Connector		
Size A4	Number 1	Revision
Date: 7/12/2024	Sheet of	
File: Z:\Redesign\Redesign\1_RPi.SchDoc	Drawn By:	

Line #	Name	Description	Designator	Revision ID	Revision State	Revision Status	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
0	generic		R001		Not managed		1							
1K	generic		R005		Not managed		1							
10		Res Thick Film 2512 10 Ohm 1% 2W ±100ppm/°C Molded SMD SMD Paper TTR	R001		Not managed		1				Farnell	2824741		
10K	generic		R001, R002		Not managed		2							
52.3	generic		R002, R006		Not managed		2							
100	generic		R003, R004		Not managed		2							
90120-0763		CONN HEADER VERT 3POS 2.54MM	J21		Unknown server		1	Molex	90120-0763	Volume Production	Mouser	538-90120-0763	0.98	0.98
61300211121			P11		Unknown server		1	Würth Electronics	61300211121	Volume Production	Mouser	710-61300211121	0.13	0.13
61300511121			P12, P13		Unknown server		2	Würth Electronics	61300511121	Volume Production	Mouser	710-61300511121	0.26	0.52
61304021821			J11		Unknown server		1	Würth Electronics	61304021821		Digkey	732-61304021821-ND	1.92	1.92
66201621122			P14		Unknown server		1	Würth Electronics	66201621122	Volume Production	Mouser	710-66201621122	1.33	1.33
AD7606BSTZ		8 Channel Data Acquisition System with 16- Bit, Bipolar Input, Simultaneous Sampling Analog- to-Digital Converter with Parallel, Serial and SPI Interface, 200KSPS, -40 to +85 degC, SF-64-2, Pb-Free, Tray	U21		Unknown server		1	Analog Devices	AD7606BSTZ	Volume Production	Arrow Electronics	AD7606BSTZ	38.38	38.38
AD8014ARTZ		Single Channel Very Low Noise Operational Amplifier, 400 MHz BW, 4KV/us SR, Industrial, 5- pin SOT23 (RJ-5), Reel	U51		Unknown server		1	Analog Devices	AD8014ARTZREEL7	Volume Production	Mouser	584-AD8014ARTZ-R7	4.15	4.15
AD8302ARLJZ		LF-2.7 GHz RF IF Gain and Phase Detector, 60ns Response Time, RJ-14, Pb-Free, 96 Tube	U31		Unknown server		1	Analog Devices	AD8302ARLJZ	Volume Production	Mouser	584-AD8302ARLJZ	29.11	29.11
AD8833MBRMZ-REEL		Integrated Circuit	IC51		Not managed		1							
ADG725BSJZ		1.8 to 5.5 V / ±2.5 V, 4 Ohm, Serially Controlled, 16- Channel Analog Multiplexer, -40 to 85 degC, 48-pin QFP (SU-48), Tray	U61, U62		Unknown server		2	Analog Devices	ADG725BSJZ	Volume Production	Mouser	584-ADG725BSJZ	17.4	34.8
ADP151ALJZ-1.2-17		Integrated Circuit	IC43		Not managed		1							
ASPLMB-25.00MHzXYT		Crystal or Oscillator	Y51		Not managed		1							
DMG230SLX-7		MC9FET PCH20V 4.2A SOT23	Q41		Unknown server		1	Diodes	DMG230SLX-7	Volume Production	Newark	8276564	0.081	0.081
generic	generic		C201, C304, C305, C308, C309, C406, C407, C514		Not managed		8							
generic	generic		C202, C203, C303, C302		Not managed		4							
generic	generic		C204, C205, C301, C401, C404, C502, C504, C505, C513, C601		Not managed		10							
generic	generic		C302		Not managed		1							
generic	generic		C303, C306, C307, C310		Not managed		4							
generic	generic		C405		Not managed		1							
generic	generic		C501		Not managed		1							
generic	generic		C506		Not managed		1							
generic	generic		C507, C511		Not managed		2							
generic	generic		C508		Not managed		1							
generic	generic		C509, C510		Not managed		2							
generic	generic		C512		Not managed		1							
LP3652ES-5.0/NOPB		1.5A Fast Ultra Low Dropout Linear Regulator, 5-pin TO-263, Pb- Free	U41		Unknown server		1							
LQW18AN10NG000		Wire Wound RF Inductor 10nH ±2% 650mA 0.110 0603 (1608)	L301, L501, L502, L503, L504		Unknown server		5	Murata	LQW18AN10NG000	Volume Production	Digkey	490-6856-1-ND	0.16	0.8
MAX4376TALK-T		MAX4376 Series 28 V 2MHz Buffer Current Sense Operational Amplifier - SOT-23 5	IC52		Not managed		1				Mouser	700-MAX4376TALK-T		
RD0633UR-070RL		Chip Resistor, 0 Ohm, ±- 5%, 0.1 W, -55 to 155 degC, 0603 (1608 Metric), Reels, Tape and Reel	R101, R102, R103, R104, R105, R106, R201, R202, R203, R204, R205, R206, R207, R201, R202, R503, R504, R505, R506, R507, R508, R509		Unknown server		22	Yageo	RD0633UR-070RL	Volume Production	Newark	74K0306	0.007	0.175
9MBJ04-13-F		TVS Diode (Uni- directional)	D41		Not managed		1							
SI730UB3R		Integrated Circuit	IC62		Not managed		1							
TACK106M0020TA			Q402, Q403		Unknown server		2							
U.FLR-SMT(10)		CONN U.FLR RPT STR50 OHM SMD	J12, J13		Unknown server		2							