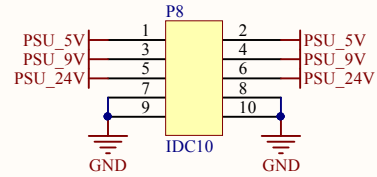
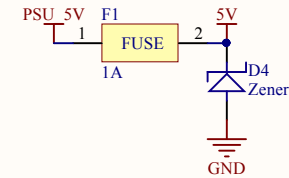


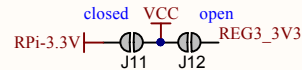
Power input from KORUZA power supply board



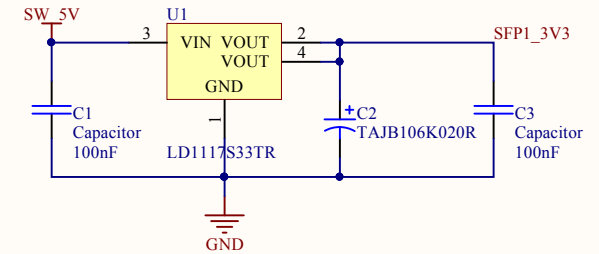
PTC fuse and zener to protect RPi



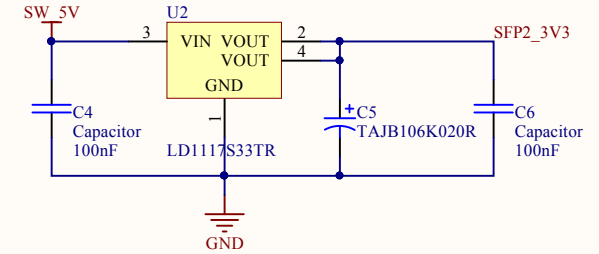
Select VCC to be powered either from RPi or from standalone regulator



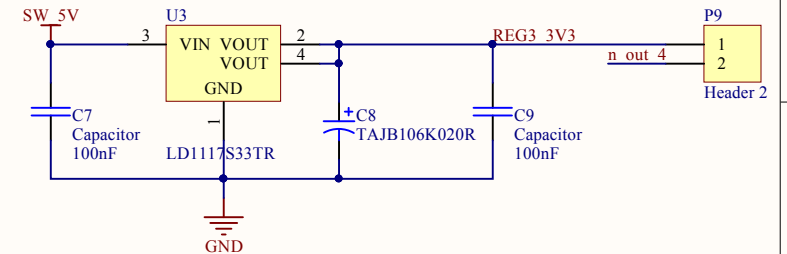
Primary SFP power supply
Install only if Media converter is not used



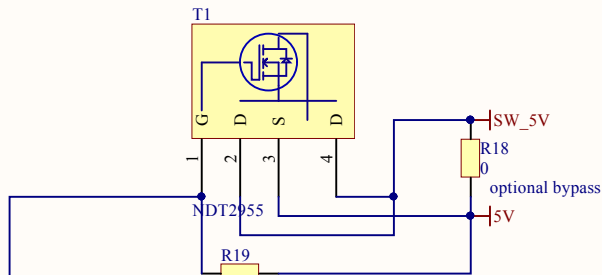
Secondary SFP power supply
Install only if Media converter is not used



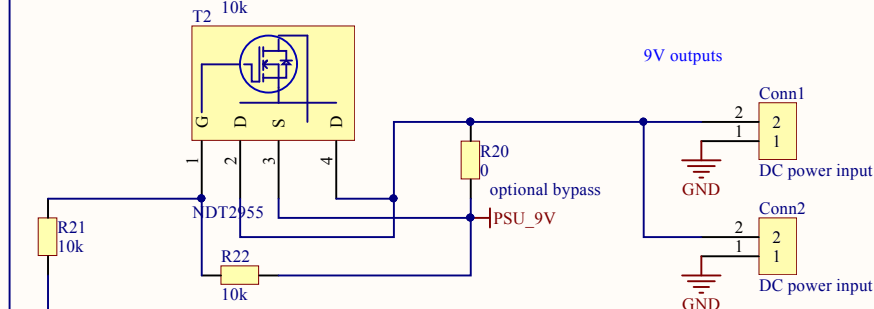
Optional power supply for VCC



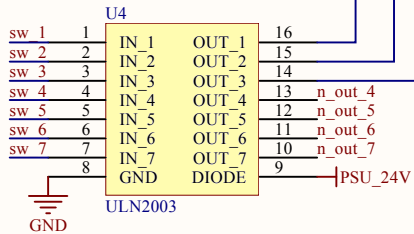
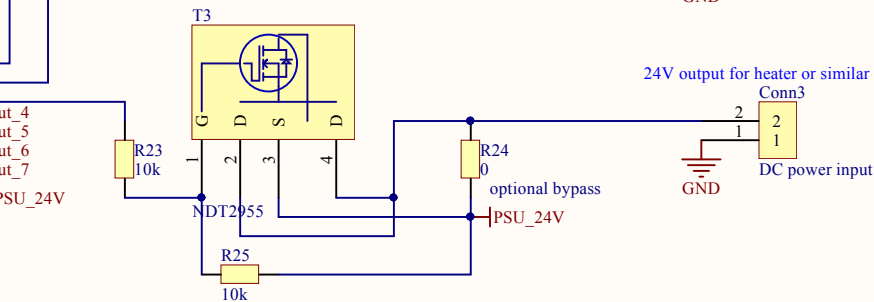
5V for powering SFP modules



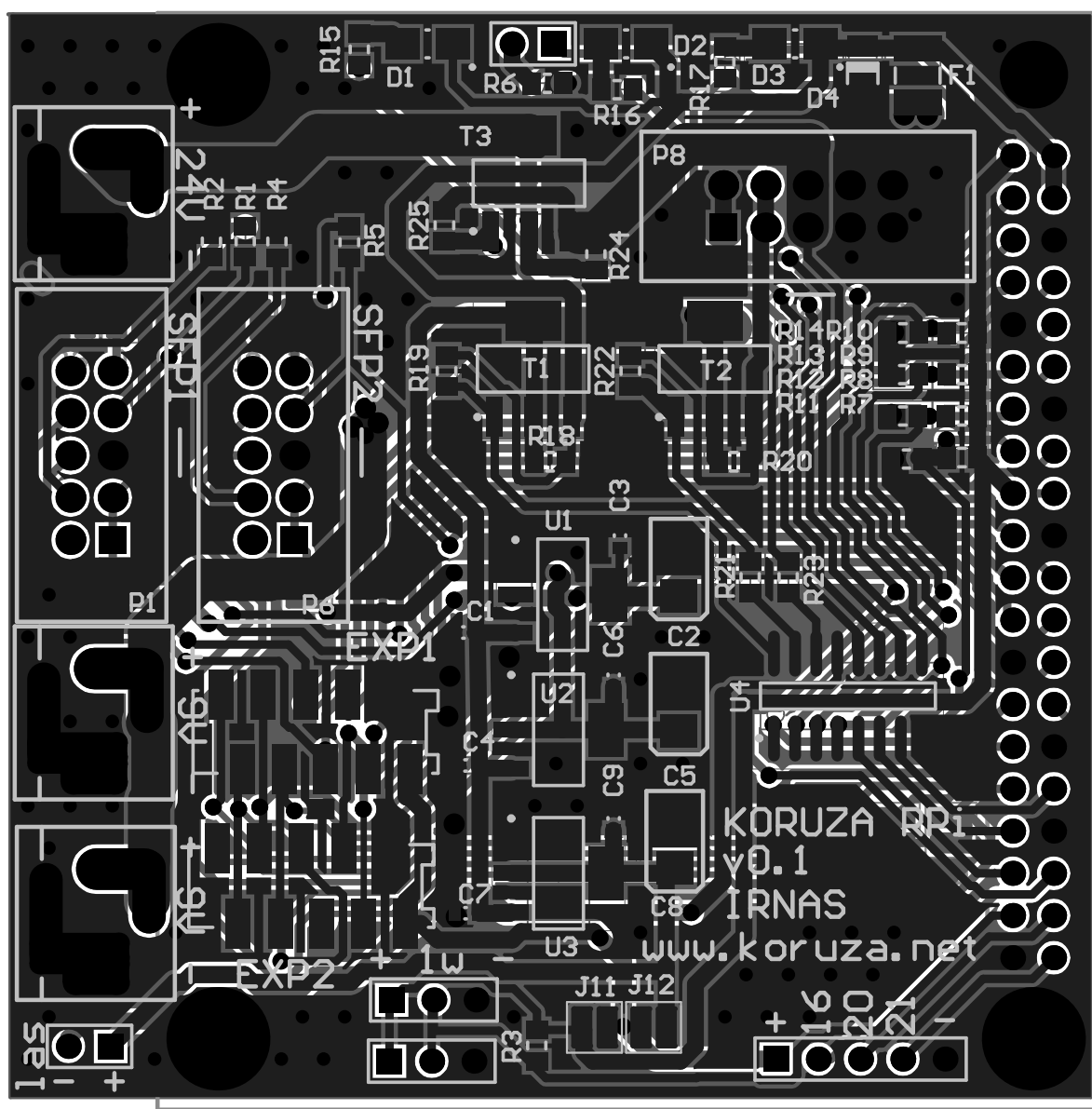
9V outputs



24V output for heater or similar



Title Power supply circuitry		
Size A4	Number	Revision
Date: 15.12.2015	Sheet of	
File: D:\AltiumProjects\KORUZA_RPi_shield\PowerSupplySchDoc	Drawn by	



Comment	Description	Designator	Footprint	LibRef	Quantity
Capacitor	General capacitor	C1, C3, C4, C6, C7, C9	0603	Capacitor	6
TAJB106K020R	Capacitor, Tantalum, 10uF 10% 20V MCCT-B (3528)	C2, C5, C8	AVX-CAPC3528_V	CMP-0279-00001-1	3
DC power input		Conn1, Conn2, Conn3	MKDSN 2,5/ 2-5,08 and powercon	PowerScrewTerminal	3
LED	LED diode	D1, D2, D3	1206/0805 diode	LED	3
Zener	Zener	D4	DIOMELF3517N	Zener	1
1A	1A fuse	F1	1210	Fuse	1
IDC10	IDC 10pin	P1, P6, P8	IDC10	IDC10	3
RaspberryPI 2B	RPi2	P2	RaspberryPI_B+	RaspberryPI 2B	1
Header 3	Header, 3-Pin	P3, P4	HDR1X3	Header 3	2
Header 2	Header, 2-Pin	P5, P9	HDR1X2	Header 2	2
Header 5	Header, 5-Pin	P7	HDR1X5	Header 5	1
	Micro-Match female PCB connector 10 Positions THT	PoExtension1, PoExtension2	8-188275-0	1-215079-0	2
10k	Resistor 0805 smd	R1, R5, R8, R19, R21, R22, R23, R25	RESC2012X06N	Resistor	8
0	Resistor 0805 smd	R2, R4, R18, R20, R24	RESC2012X06N	Resistor	5
4k7	Resistor 0805 smd	R3, R6	RESC2012X06N	Resistor	2
/	Resistor 0805 smd	R7, R9, R10, R11, R12, R13, R14	RESC2012X06N	Resistor	7
100	Resistor 0805 smd	R15, R16, R17	RESC2012X06N	Resistor	3
NDT2955	P MOSFET	T1, T2, T3	SOT230P700X180-4N	NDT2955	3
LD1117S33TR	Fixed Low Drop Positive Voltage Regulator, 3.3V, 4-Pin SOT-223, Tape and Reel	U1, U2, U3	SOT-223_L	CMP-0244-00310-1	3
ULN2003	Darlington array	U4	SO-16 narrow	ULN2003	1