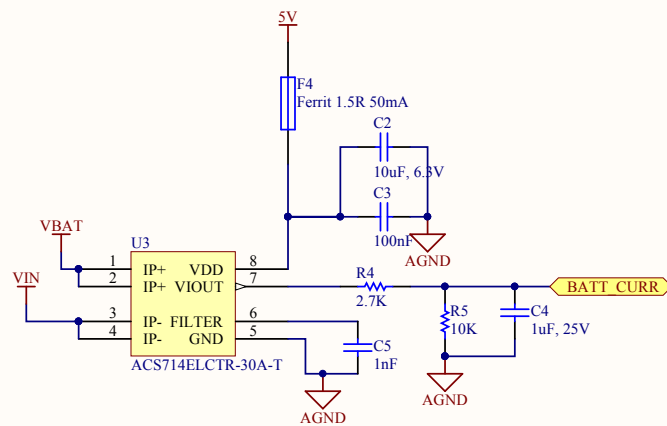
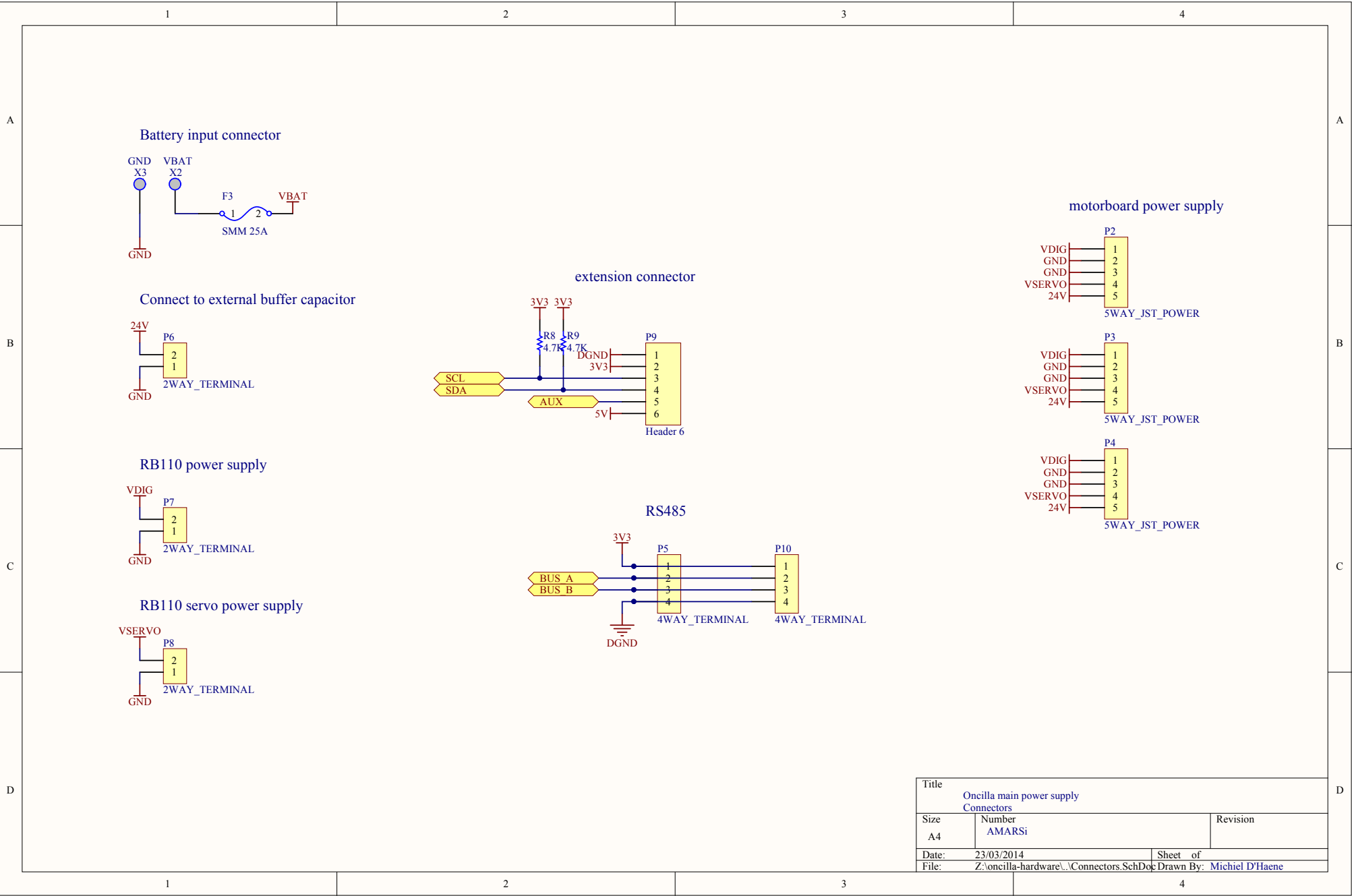
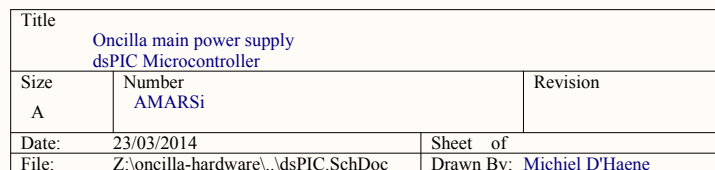


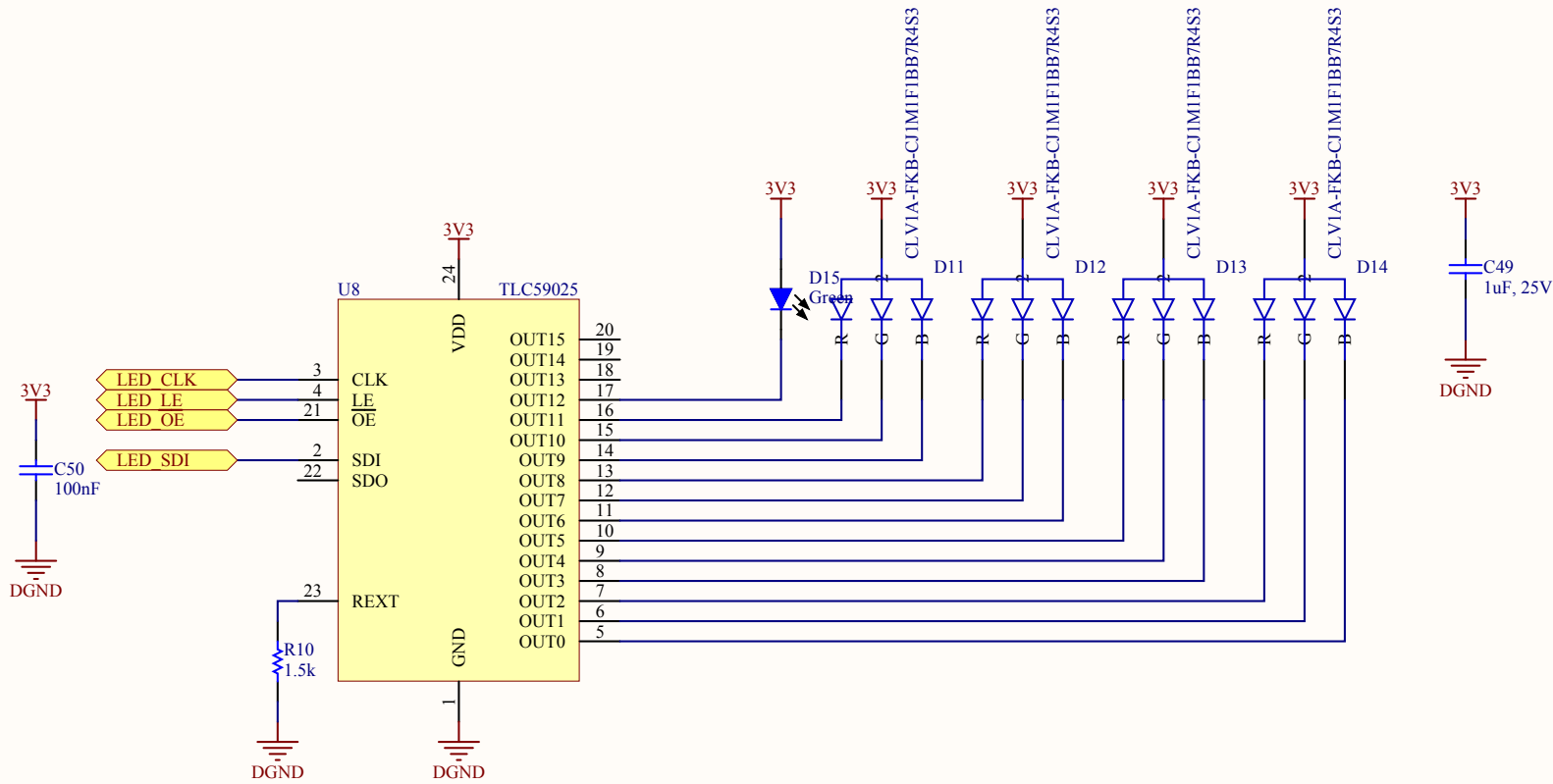
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Main motor supply SEPIC 24V, 15A power converter		
Size	Number	Revision
A4	AMARSi	
Date:	23/03/2014	Sheet of
File:	Z:\oncilla-hardware\Power_24V.SchDoc	Drawn By: Michiel D'Haene



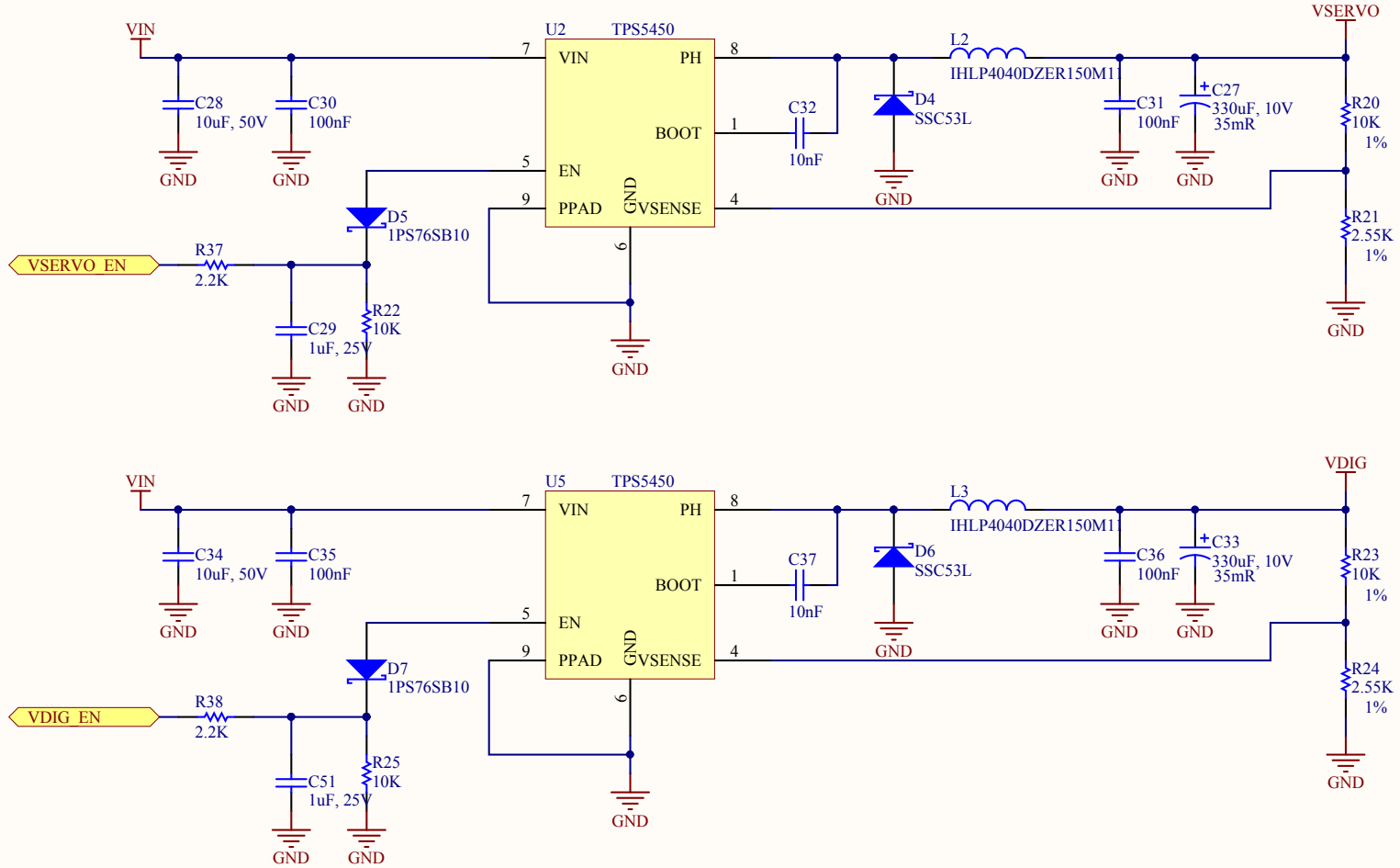
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Oncilla main power supply Battery current sensor			
Size	Number	Revision	
A4	AMARSi		
Date:	23/03/2014	Sheet of	
File:	Z:\oncilla-hardware\CurrentSensor.SchDoc	Drawn By: Michiel D'Haene	



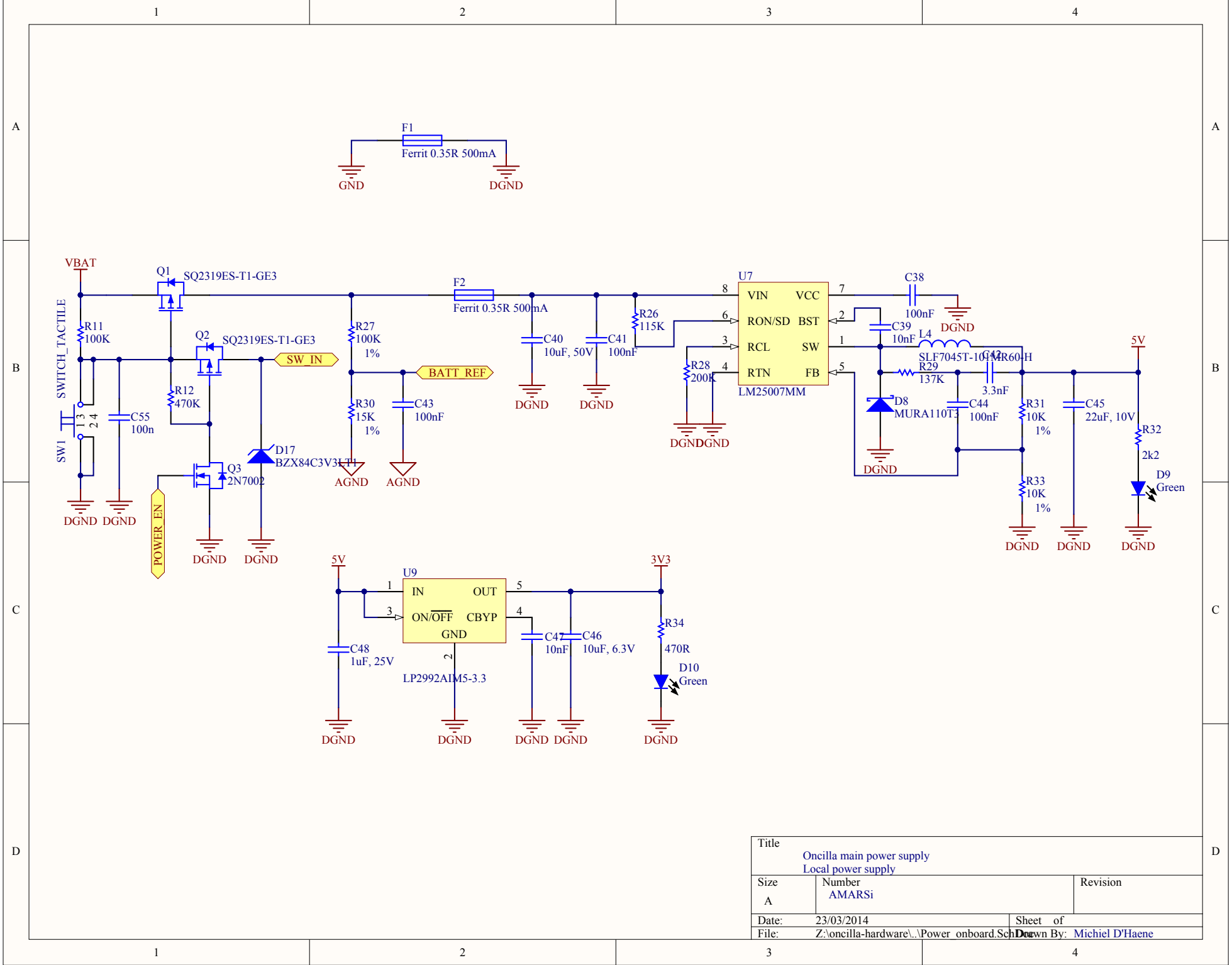


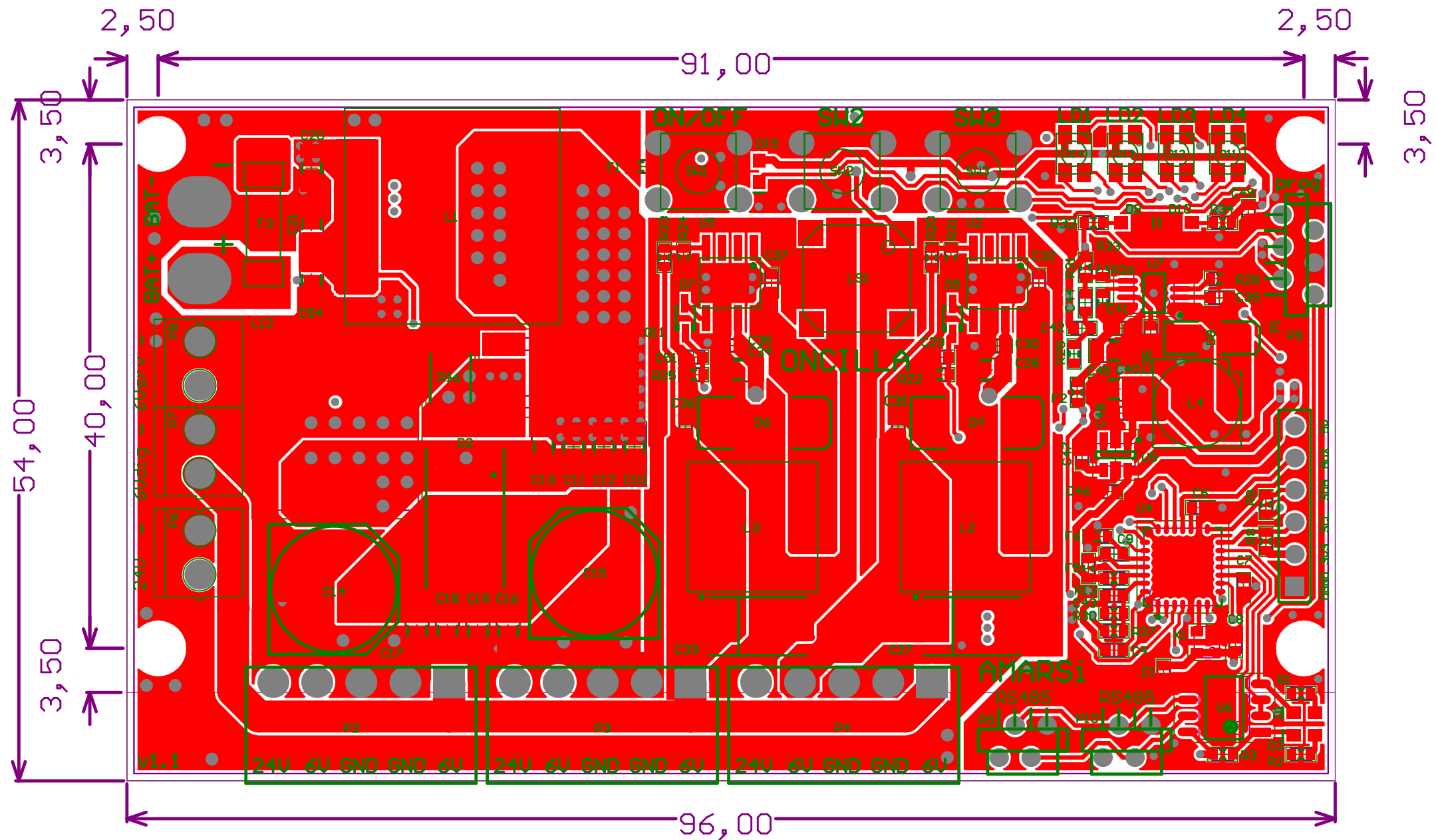


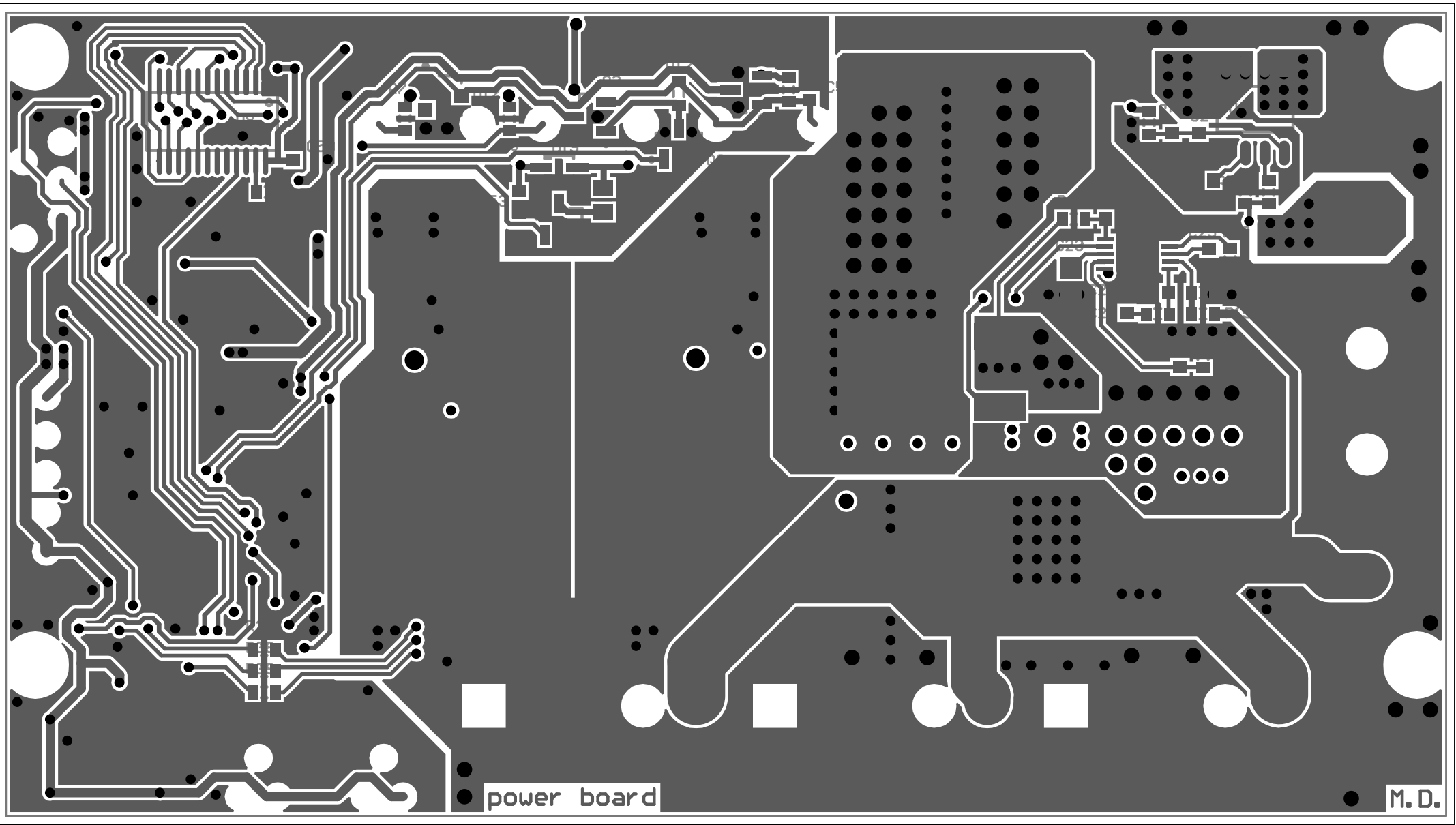
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Size	Number	Revision
A		
Date:	23/03/2014	Sheet of
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Title		
Oncilla main power supply 6V, 5A power supplies		
Size	Number	Revision
A	AMARSi	
Date:	23/03/2014	Sheet of
File:	Z:\oncilla-hardware\...\Power 6V.SchDoc	Drawn By: Michiel D'Haene







Part List		Vbusm (Biorob)		
Source Data From:		powerboard.PrjPcb		
Project:		powerboard.PrjPcb		
Variant:		None		
Report Date: 23/03/2014		19:33:57		
Print Date: 23-Mar-14		7:34:10 PM		
Designator	Comment	LibRef	Footprint	Description
C1, C3, C7, C8, C30, C31, C35, C36, C38, C41, C43, C50	100nF	Cap Semi	CAPC1608L	Capacitor (Semiconductor SIM Model)
C2, C6, C46	10uF, 6.3V	Cap Semi	CAPC1608L	Capacitor (Semiconductor SIM Model)
C4, C9, C25, C29, C48, C49, C51, C52, C53	1uF, 25V	Cap Semi, Cap Semi, Cap, Cap Semi, Cap Semi, Cap Semi, Cap Semi	CAPC1608L	Capacitor (Semiconductor SIM Model), Capacitor (Semiconductor SIM Model), Capacitor, Capacitor (Semiconductor SIM Model), Capacitor (Semiconductor SIM Mod
C5	1nF	Cap Semi	CAPC1608L	Capacitor (Semiconductor SIM Model)
C10, C11, C12, C13, C16, C17, C18, C19, C20, C21, C28, C34, C40, C54	10uF, 50V	Cap Semi	CAPC3216L	Capacitor (Semiconductor SIM Model)
C14, C15	100uF, 35V, 29mR	CAP_POL	CAP_POL_SMD_SIZE_G	
C22	2.2nF	Cap Semi	CAPC1608L	Capacitor (Semiconductor SIM Model)
C23	10uF, 16V	Cap Semi	CAPC2512L	Capacitor (Semiconductor SIM Model)
C24	100uF	Cap	CAPC1608L	Capacitor
C26	8.8nF	Cap	CAPC1608L	Capacitor
C27, C33	330uF, 10V	255D157X06R3D2T045	7343	
C32, C37, C38, C47	10nF	Cap Semi	CAPC1608L	Capacitor (Semiconductor SIM Model)
C42	3.3nF	Cap Semi	CAPC1608L	Capacitor (Semiconductor SIM Model)
C44	22nF	Cap Semi	CAPC1608L	Capacitor (Semiconductor SIM Model)
C45	22uF, 10V	Cap Semi	CAPC3216L	Capacitor (Semiconductor SIM Model)
C55	100n	Cap Semi	CAPC1608L	Capacitor (Semiconductor SIM Model)
D1	LED Yellow	LED	CD1608-0603	LED
D2	VS-20WT04FN	12CWQ06FN	TO-252AA	Schottky Rectifier
D3	LED Red	LED	CD1608-0603	LED
D4, D6	SSCS3L	30B0040	SMC	Schottky Rectifier
D5, D7, D19	1PS76SB10	1PS76SB10	SOD323	Schottky Barrier Diode
D8	MURA110T3	10M0060N	SMA	Schottky Rectifier
D9, D10, D15	LED Green	LED	CD1608-0603	LED
D11, D12, D13, D14	CLV1A-F8B-CJ1M1F18B7R4S3	RGB_LED_COMMON_AND_RGB_LED_FLCC4E		
D17	BZX84C3V3LT1	BZX84C3V3LT1	318-07	Zener Voltage Regulator Diode
F1, F2, F5, F8	Ferrit 0.35R 500mA	Fuse 1	RESC1608L	Ferrit Bead
F3	SMM 25A	tube	FUSE_SMM	
F4	Ferrit 1.5R 50mA	Fuse 1	RESC1608L	Ferrit Bead
L1	IHLPS767QZER3R3M01	Inductor	IHLP-6767GZ	
L2, L3	IHLP4040ZER15M11	Inductor	IHLP-4040Z	
L4	SLF7045T-101MR50-H	Inductor	SLF7045T	
L12	IHLP5050FDER3R3M01	Inductor	IHLP5050	Inductor
LS1	ST-03CH	piezo_souder	PIEZO_3.5x8.5MM	
P1	5WAY_TERMINAL	5WAY_TERMINAL	MICROMATCH_5WAY_SE	
P2, P3, P4	5WAY_JST_POWER	5WAY_JST_POWER	TERMINAL_5WAY_3P	
P5, P10	4WAY_TERMINAL	4WAY_TERMINAL	MICROMATCH_4WAY_SE	
P6, P7, P8	2WAY_TERMINAL	2WAY_TERMINAL	TYCO_2WAY_35MM	
P9	Header 6	Header 6	HDR1X6	Header, 6-Pin
Q1, Q2	SQ2319ES-T1-GE3	BSS84	SOT23_N	P-channel Enhancement Mode Vertical D-MOSFET
Q3, Q4	2N7002	BS182	SOT23_N	N-channel Enhancement Mode Field-effect Transistor
Q5, Q11	FDD16AN06A0	nFET	TO-252A DPAK	N-Channel MOSFET
R1, R2	1k	Res Semi	RESC1608L	Semiconductor Resistor
R3, R5, R6, R7, R13, R18, R22, R25, R36	10k	Res Semi	RESC1608L	Semiconductor Resistor
R4	2.7k	Res Semi	RESC1608L	Semiconductor Resistor
R8, R9	4.7k	Res Semi	RESC1608L	Semiconductor Resistor
R10	1.5k	Res Semi	RESC1608L	Semiconductor Resistor
R11, R12	100k	Res Semi	RESC1608L	Semiconductor Resistor
R14	22R	Res Semi	RESC1608L	Semiconductor Resistor
R15	200K, 1%	Res Semi	RESC1608L	Semiconductor Resistor
R16	1.5mR, 2W	Res2	RESG3332N	Resistor
R17	24.3K	Res Semi	RESC1608L	Semiconductor Resistor
R19	14.3K, 1%	Res Semi	RESC1608L	Semiconductor Resistor
R20, R23, R31, R33	10k, 1%	Res Semi	RESC1608L	Semiconductor Resistor
R21, R24	2.59k, 1%	Res Semi	RESC1608L	Semiconductor Resistor
R26	115k	Res Semi	RESC1608L	Semiconductor Resistor
R27	100k, 1%	Res Semi	RESC1608L	Semiconductor Resistor
R28	200k	Res Semi	RESC1608L	Semiconductor Resistor
R29	138k	Res Semi	RESC1608L	Semiconductor Resistor
R30	15k, 1%	Res Semi	RESC1608L	Semiconductor Resistor
R32	2k2	Res Semi	RESC1608L	Semiconductor Resistor
R34	470R	Res Semi	RESC1608L	Semiconductor Resistor
R35	100R	Res Semi	RESC2012L	Semiconductor Resistor
R37, R38, R39	2.2k	Res Semi	RESC1608L	Semiconductor Resistor
SW1, SW2, SW3	SWITCH_TACTILE	SWITCH_TACTILE	TACTILE_SWITCH	
U1	LT3757	LT3757	MSOP-10-TP	2.9-40V SEPIC, Flyback, Boost and Invertir Converter with external switch
U2, U5	TPS5450	TPS5450	SOIC8 POWERPAD	
U3	ACS714ELCTR-30A-T	ACS714	SOIC-8_M	Hall Effect-Based Linear Current Sensor
U4	DSPIC33FJ128GP802-4NM	DSPIC33FJ128GP802T-4NM	40PINS-MM2B_N	High-Performance 16-Bit Digital Signal Controller, 128 KB Flash, 16 KB RAM, 28-P QFN, Industrial Temperature, Tape and Reel
U6	ADM3078E	ADM3078E	SOIC-8_M	Half-Duplex RS485 Transceiver, 3.3V, 16Mbps
U7	LM25007MM	LM25007MM	MUA08A_N	42V, 0.5A Step-Down Switching Regulator
U8	TLC59025	TLC59025	SOP24	
U9	LP2992AIM5-3.3	LP2992AIM5-5.0	MF05A_N	Micropower 250 mA Low-Noise Ultra Low-Dropout Regulator in SOT-23 and LLP Packages
X1	ASDM1-8.000MHZ-LC-T	Oscillator	Crystal-Oscillator-2520	Oscillator
X2	YBAT	1WAY_TERMINAL	TESTPIN 2MM	
X3	GND	1WAY_TERMINAL	TESTPIN 2MM	