

POWER AND FILTERING

USB AND BATTERY CHARGING

10K = 100mA
 5.0K = 200mA
 2.0K = 500mA
 1.0K = 1000mA

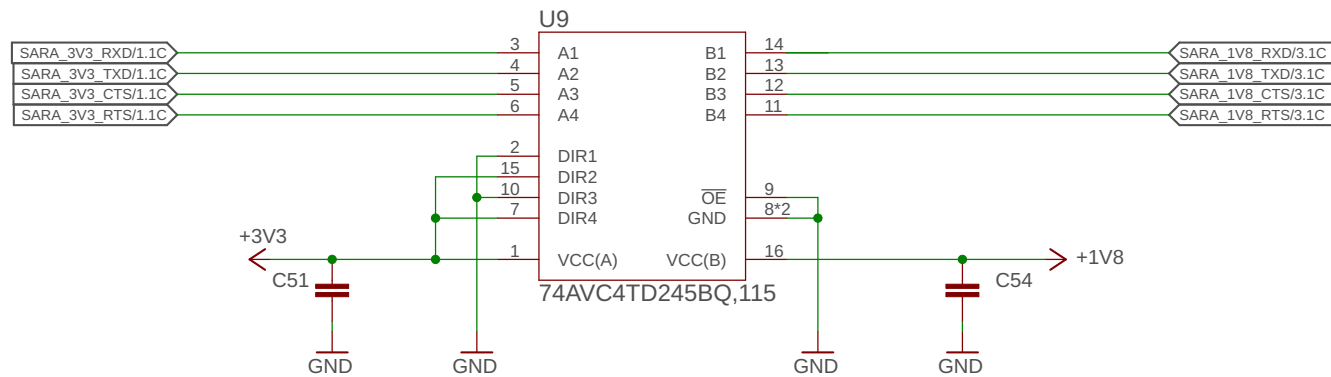
MCP73831/2
 LIPO Charger

VDD: 3.75-6V
 Temp: -40-85°C
 MCP73831T-2ACI/OT

D7 I2C0_SDA 2
 D8 I2C0_SCL 3
 D5 D6 4 5
 D6 SARA_3V3_TXD 6
 (UART1) SARA_3V3_RXD 7
 SARA_3V3_CTS 8
 SARA_3V3_RTS 9
 D13 D13 11
 D12 D12 12
 D11 D11 13
 D10 D10 14
 D9 D9 15
 D14 SARA_OC_BTN 16
 D15 SARA_OC_RST 17

GPIO0	GPIO29/ADC3	41	A0	A0
GPIO1	GPIO28/ADC2	40	A1	A1
GPIO2	GPIO27/ADC1	39	A2	A2
GPIO3	GPIO26/ADC0	38	A3	A3
GPIO4	GPIO25	37	A4	A4
GPIO5	GPIO24	36	SDI	D2
GPIO6	GPIO23	35	SDO	D3
GPIO7	GPIO22	34	SCK	D4
GPIO8	GPIO21	32	CS	A5
GPIO9	GPIO20	31		
GPIO10	GPIO19	30	LED	D17
GPIO11	GPIO18	29		
GPIO12	GPIO17	28	RX	D1
GPIO13	GPIO16	27	TX	D0
GPIO14	GPIO15	18	SARA_PWR	D16
USB_DP	QSPI_CS	56	QSPI_CS	
USB_DM	QSPI_SCLK	52	QSPI_SCLK	
	QSPI_SD0	53	QSPI_SD0	
	QSPI_SD1	55	QSPI_SD1	
	QSPI_SD2	54	QSPI_SD2	
	QSPI_SD3	51	QSPI_SD3	
	XIN	20		
	XOUT	21		
	SWCLK	24		
	SWD	25		
	RUN	26	RESET	
	TESTEN	19		

Note: A4 and A5 are NOT analog inputs on this board

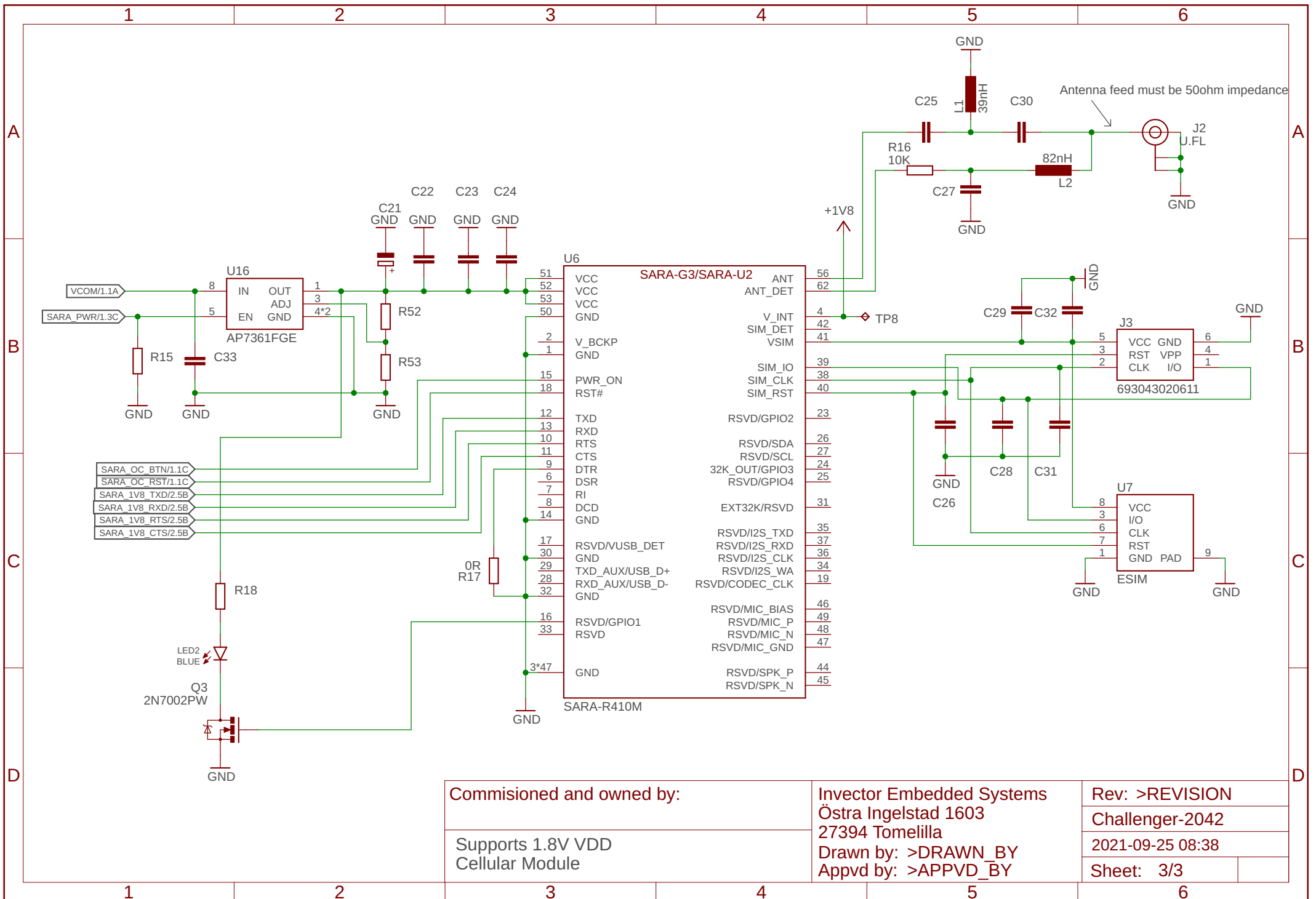


Commissioned and owned by:

Invector Embedded Systems
 Östra Ingelstad 1603
 27394 Tomelilla
 Drawn by: >DRAWN_BY
 Appvd by: >APPVD_BY

Rev: >REVISION
 Challenger-2042
 2021-09-25 08:38
 Sheet: 2/3

Level Shifters



Commissoned and owned by:

Supports 1.8V VDD
Cellular Module

Invetor Embedded Systems
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