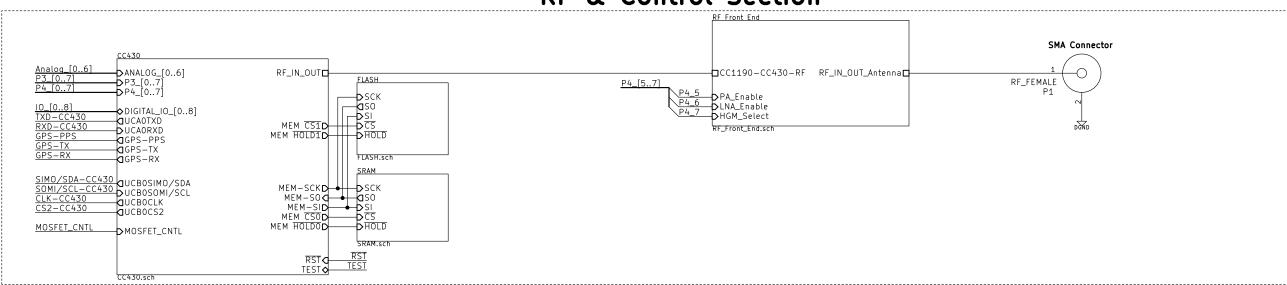
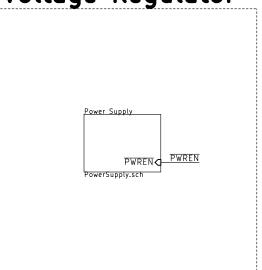
FaradayRF Wireless Module

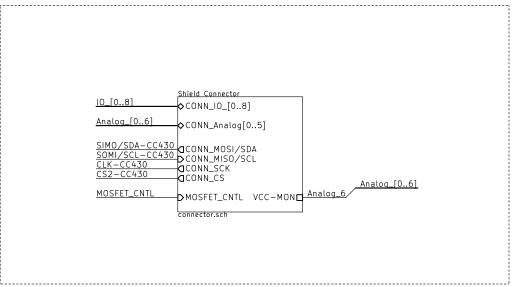
RF & Control Section



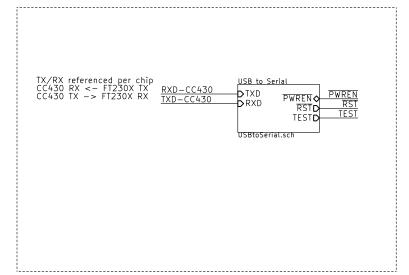
Voltage Regulator



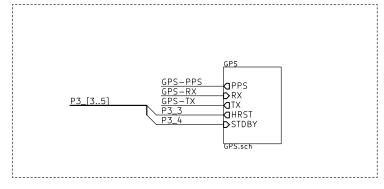
Connectors



USB <-> UART



GPS Receiver



Manufacturing

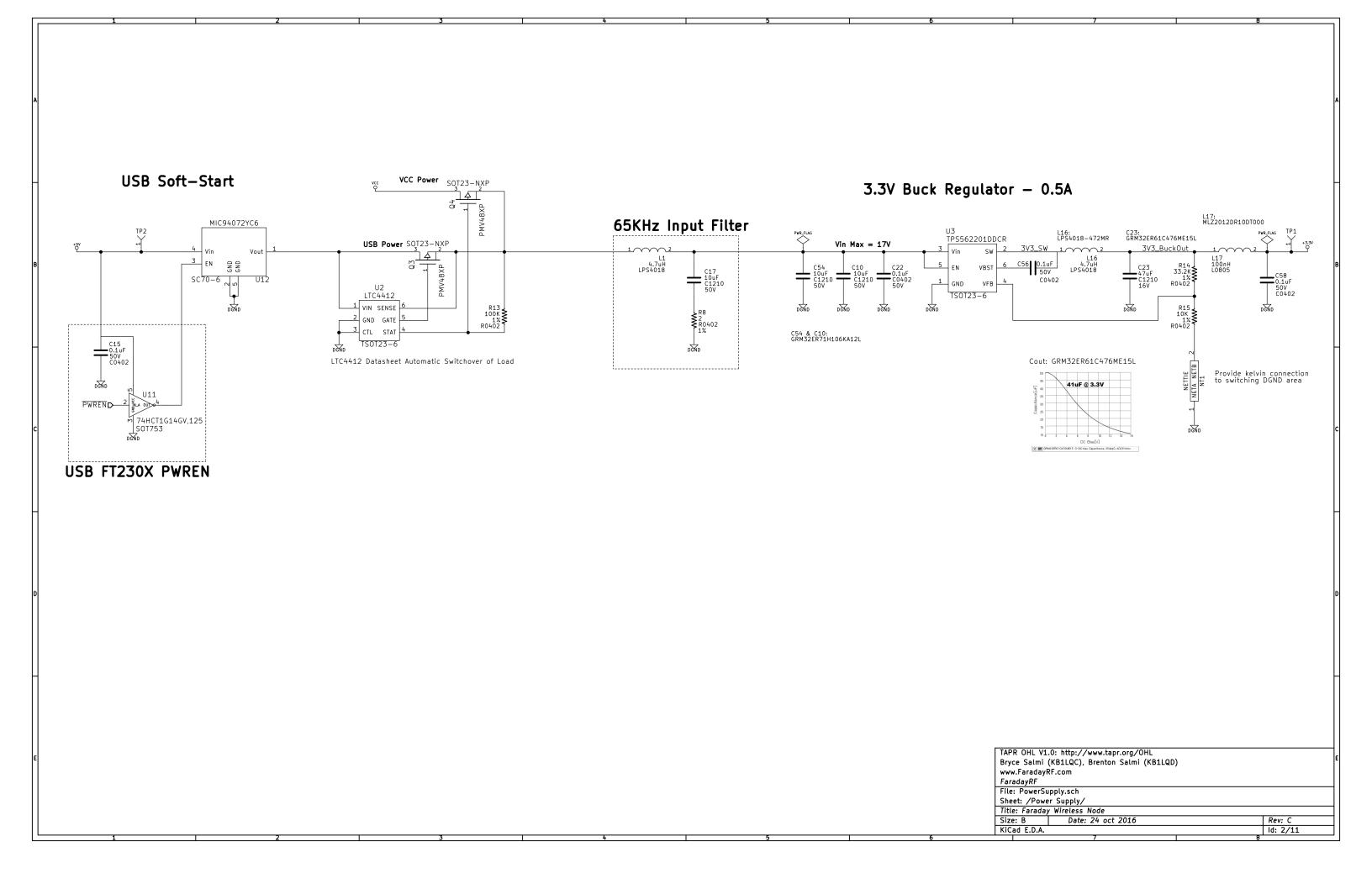
	DWR1 JSEBITE	HDWR4 MOUSEBITE	HDWR5		WR6 SEBITE
FD1	FD2	FD3	FD4	FD5	FD6
+	+	FIDUCIAL	+	FIDUCIAL	FIDUCIAL

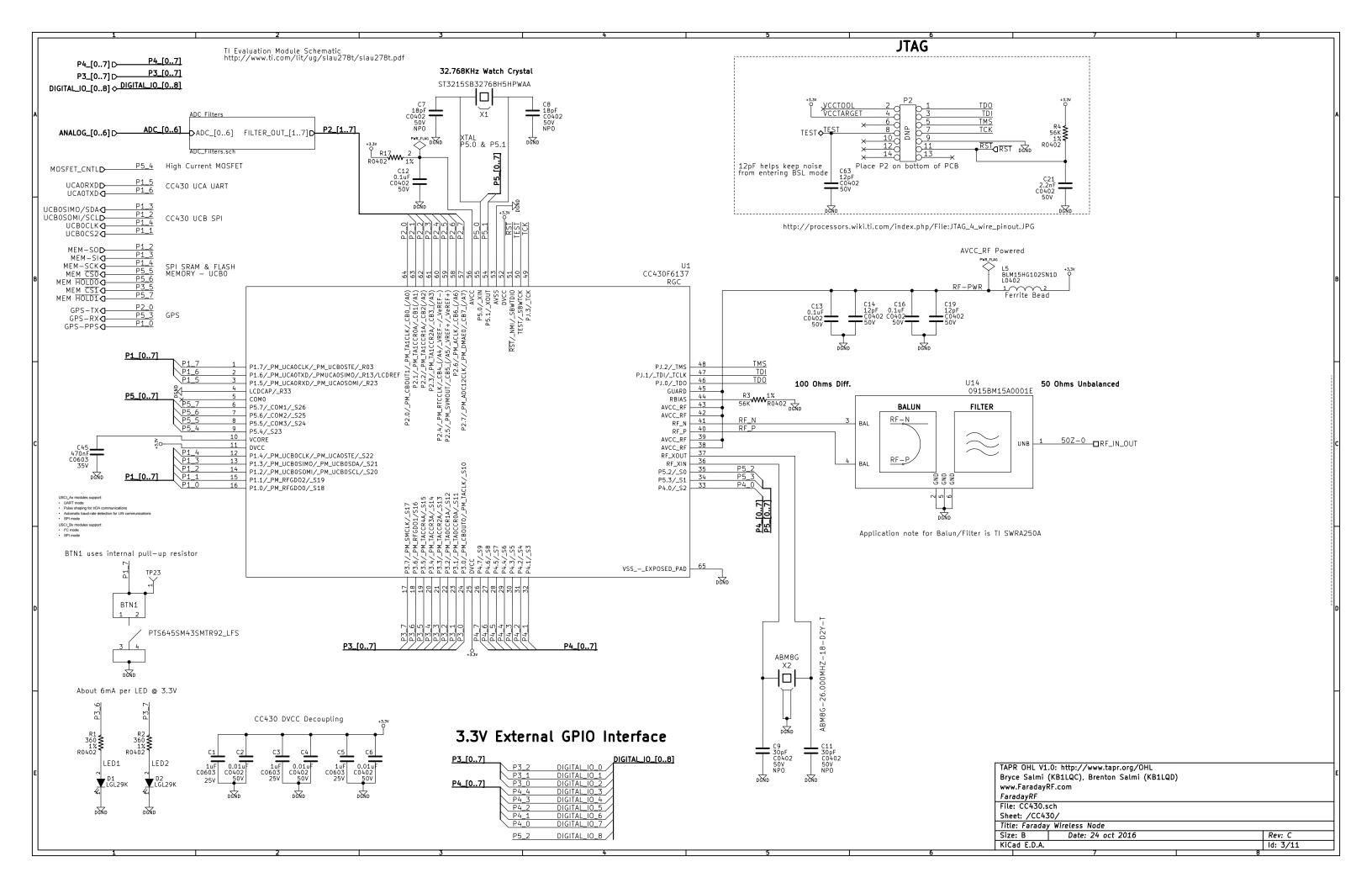
P B



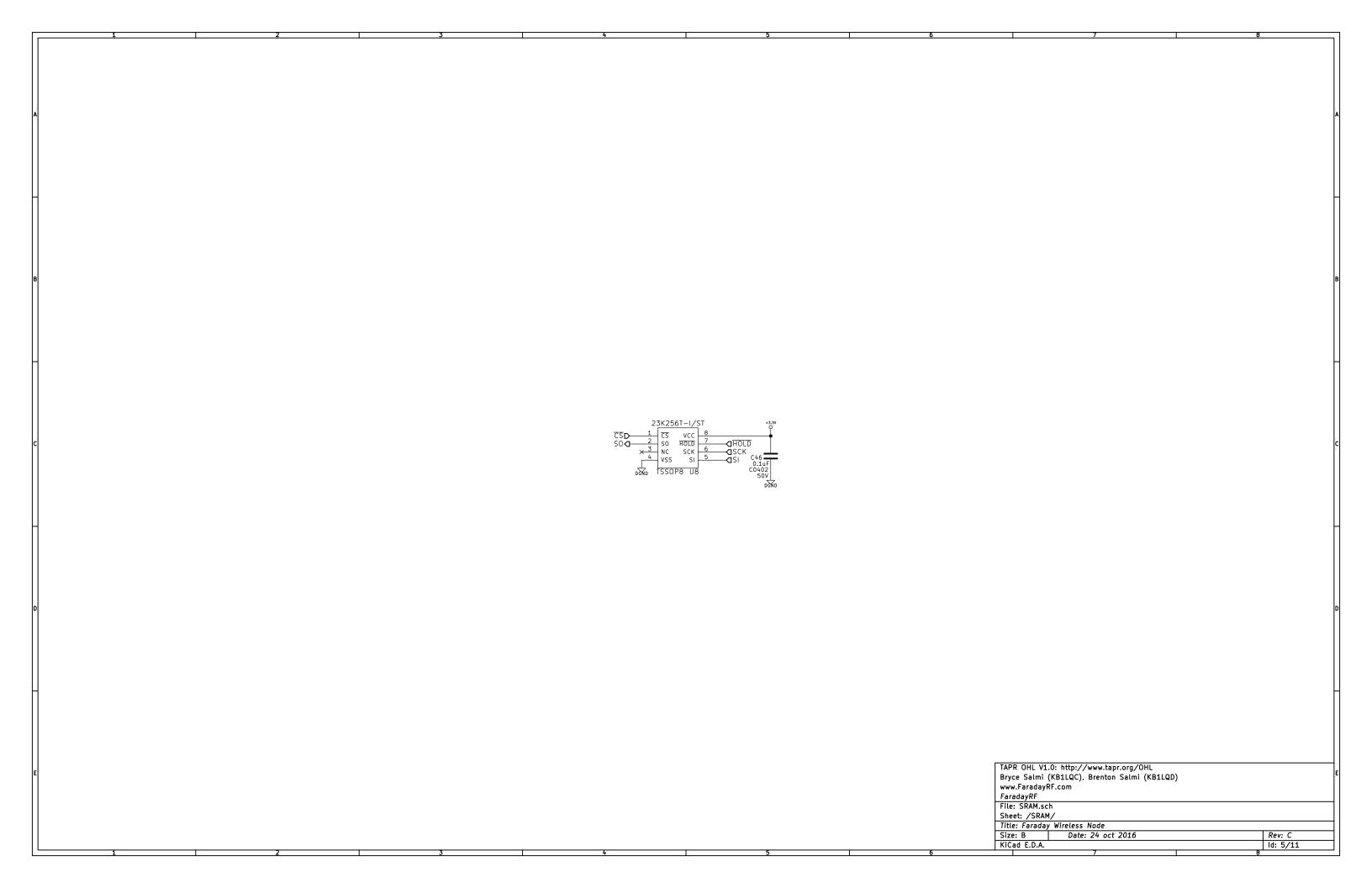
open source hardware

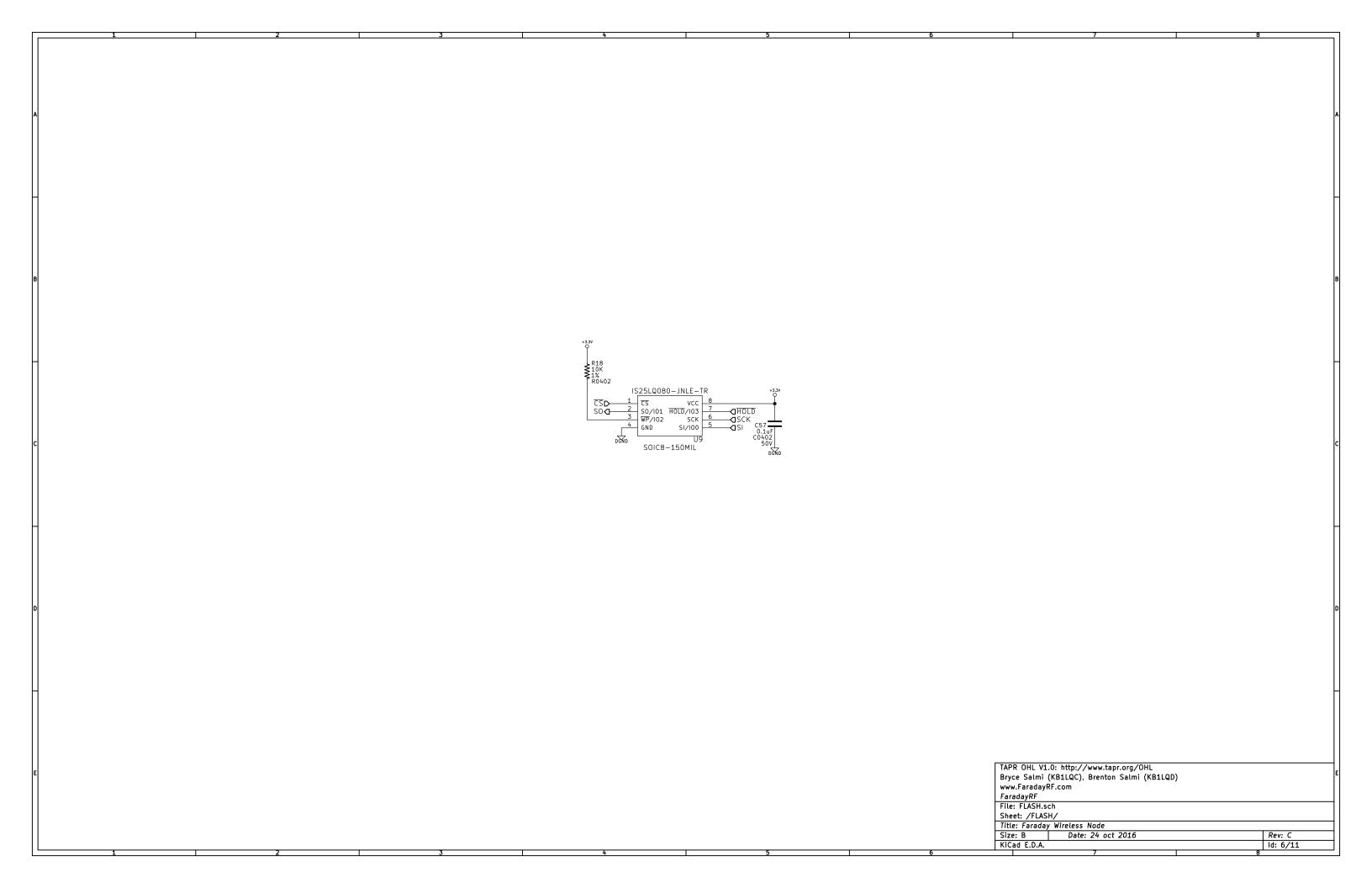
TAPR OHL V1.0: http://www.tapr.org/OHL						
Bryce Salmi (KB1LQC), Brenton Salmi (KB1LQD)						
www.FaradayRF.com						
FaradayRF						
File: Faraday.sch						
Sheet: /						
Title: Faraday Wireless Node						
Size: B	Date: 24 oct 2016	Rev: C				
KiCad E.D.A.	ld: 1/11					

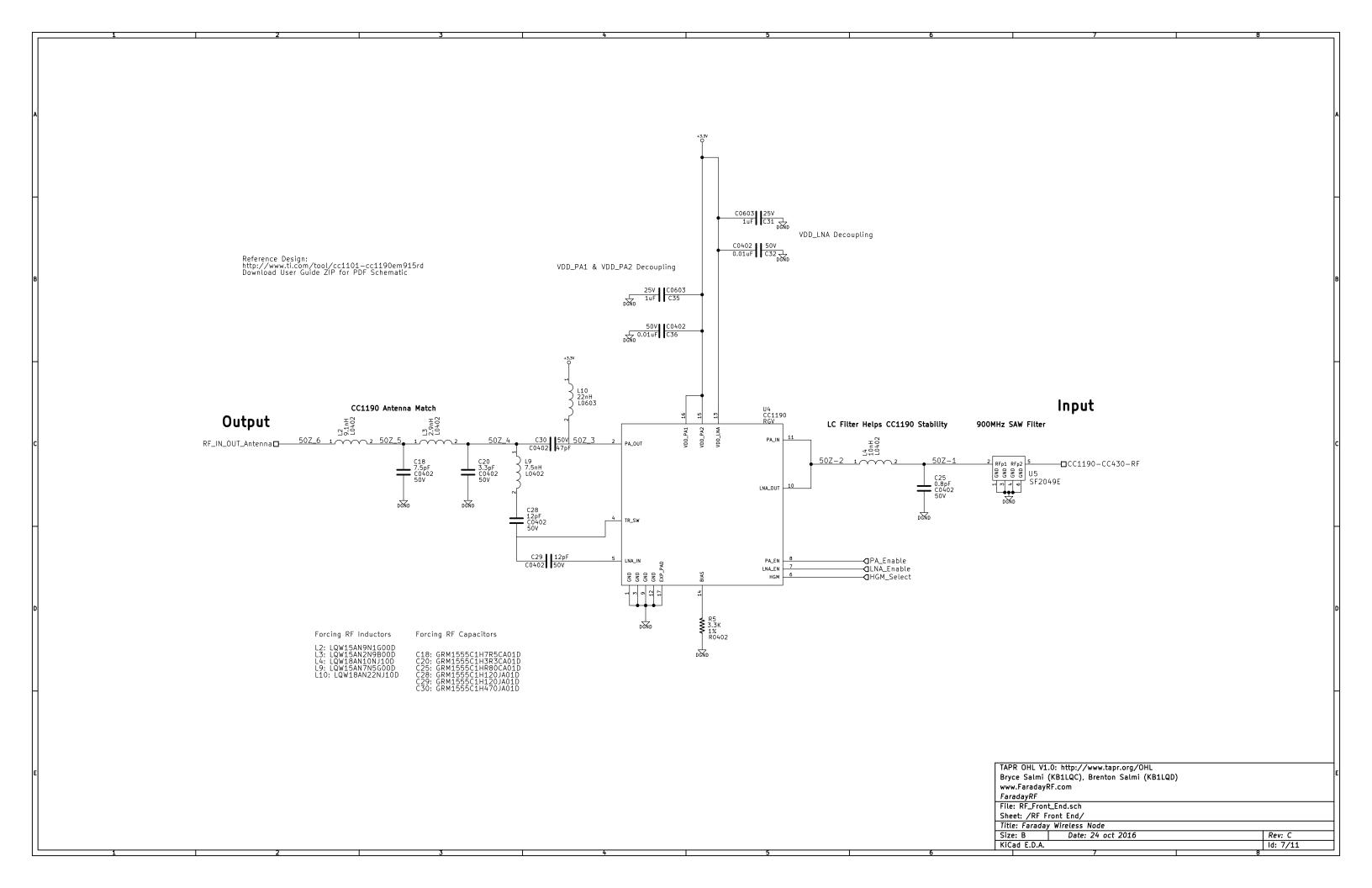


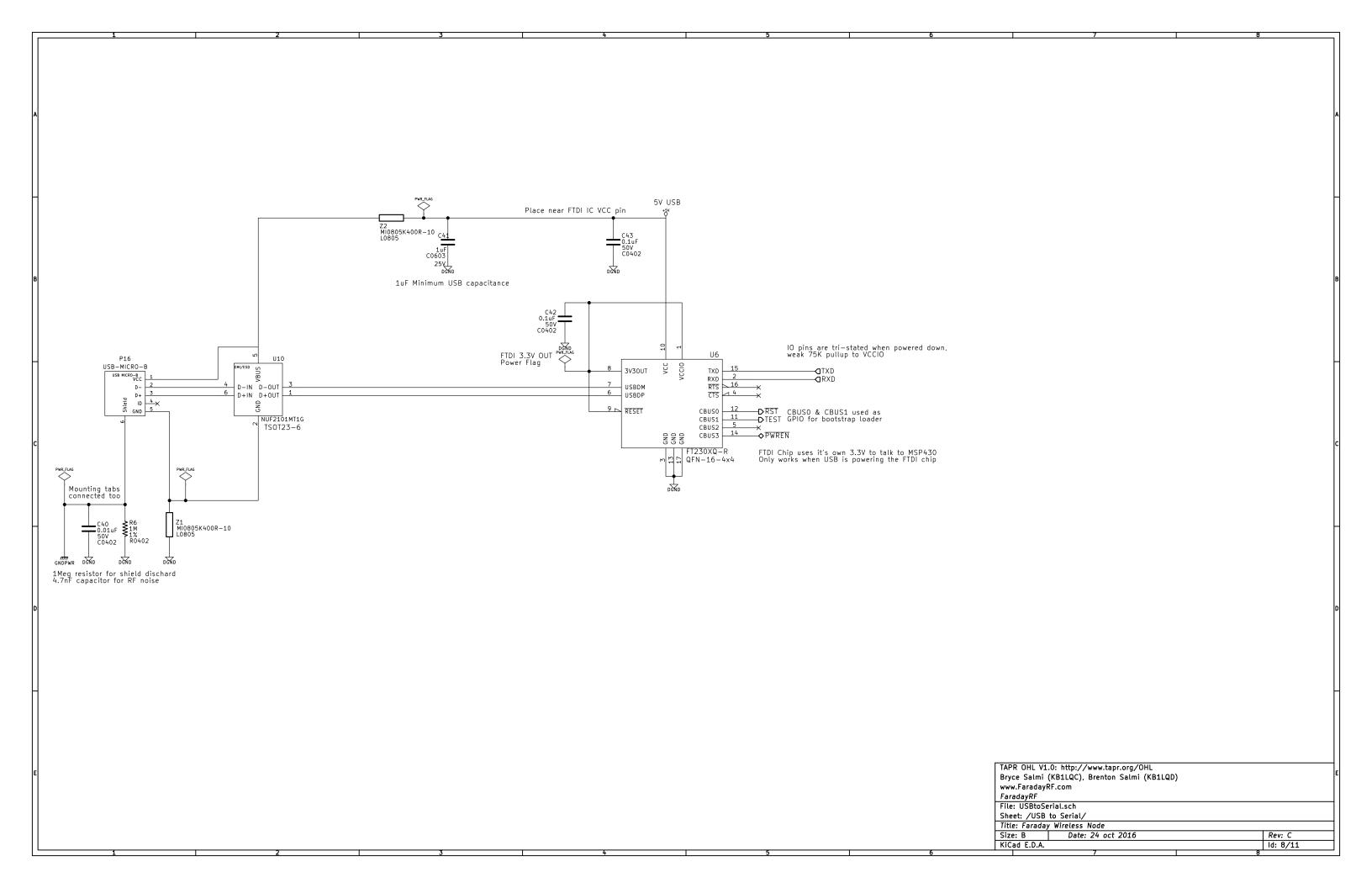


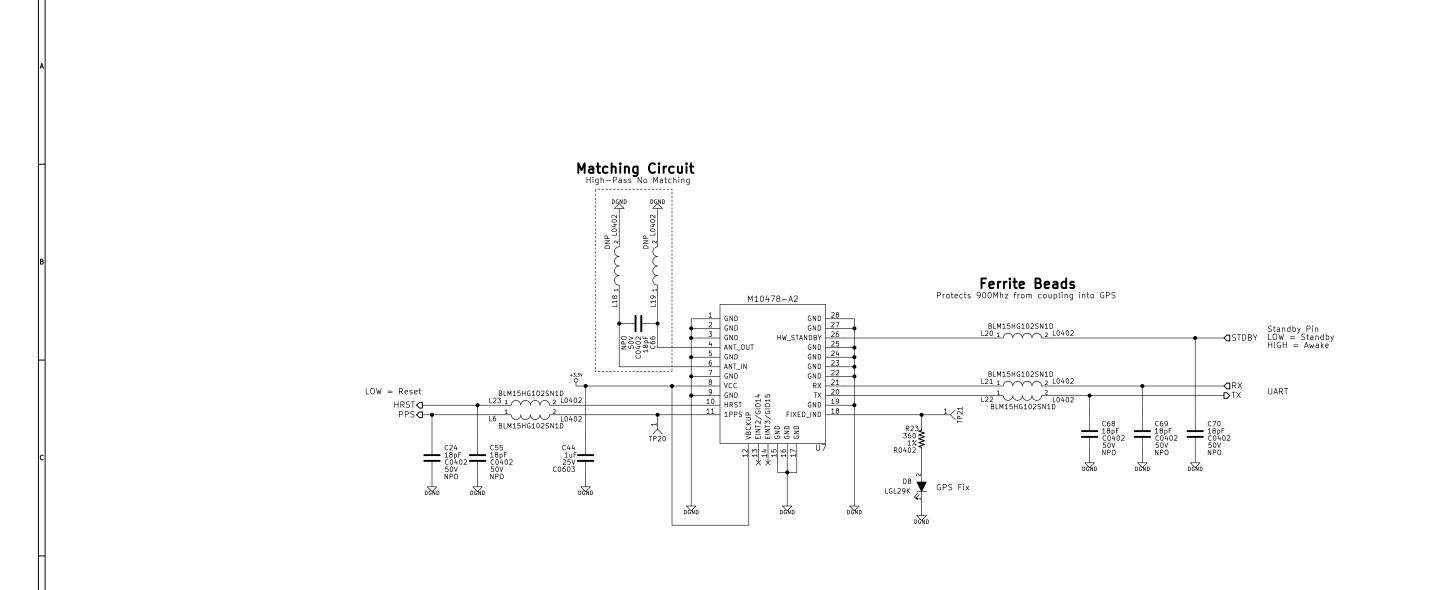
16 Hz ADC Filters Filter channels flipped for routing! FILTER_OUT_[1..7] ADC_[0..6]D-ADC_6 used for VCC Monitor ADC_6 R24 MW 10K FILTER_OUT_1 C47 1uF C0603 25V ADC5 intended for microphone input ADC_5 R0402 1% 2 FILE. ESD caution advised with ADC5 C48 DNP C0603 25V FILTER_OUT_2 ADC_4 R26 NW 10K C49 1uF C0603 25V CC430 Internal ESD Diodes Imax = 2mA 24V max VCC just barely above 2mA ⊕40mW dissipation ADC_3 R27 MM 10K C50 1uF C0603 25V ADC_2 R28 R0402 MM 1% FILTER_OUT_5 FILTER_OUT_6 C52 1uF C0603 25V R30 R0402 WW1% FILTER_OUT_7/ TAPR OHL V1.0: http://www.tapr.org/OHL Bryce Salmi (KB1LQC), Brenton Salmi (KB1LQD) www.FaradayRF.com www.raradaykr.com Faradaykr File: ADC_Filters.sch Sheet: /CC430/ADC Filters/ Title: Faraday Wireless Node Size: B Date: 24 oct 2016 KiCad E.D.A. Rev: C ld: 4/11



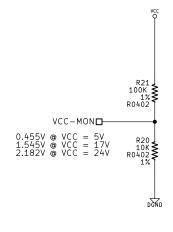




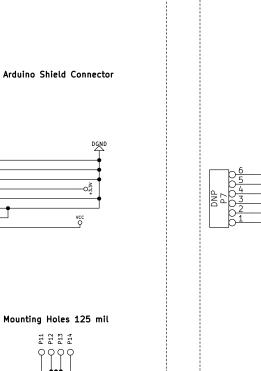




GPS can be DNP'd for cheap version w/ passives soldered allowing for customer to buy GPS afterwards if needed

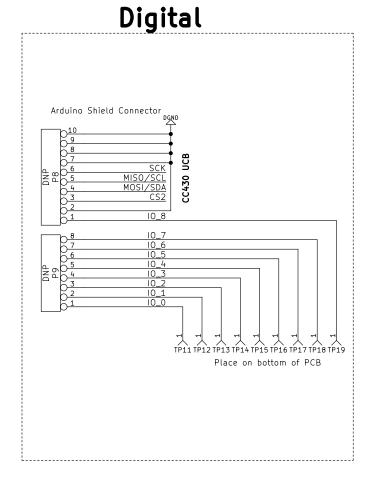






Analog In

move to bottom



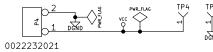
MOSFET_CNTLD MOSFET_CNTL

Ext. Power/MOSFET

Connected to USB shield

Molex 2.54mm Pitch 2 MOSFET_IN vs 1 0022232021

Molex 2.54mm Pitch



Ground is driven

MOSFET_IN OIN ON OSFET_CNTL ON OSFET_Sch

TAPR OHL V1.0: http://www.tapr.org/OHL
Bryce Salmi (KB1LQC), Brenton Salmi (KB1LQD)
www.FaradayRF.com
FaradayRF

File: connector.sch
Sheet: /Shield Connector/
Title: Faraday Wireless Node
Size: B Date: 24 oct 2016 Rev: C
KiCad E.D.A. Id: 10/11

