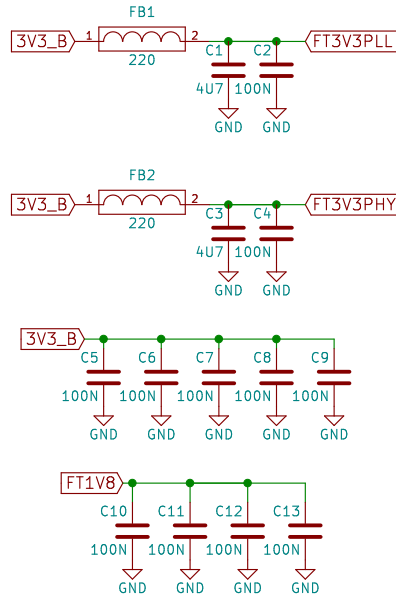
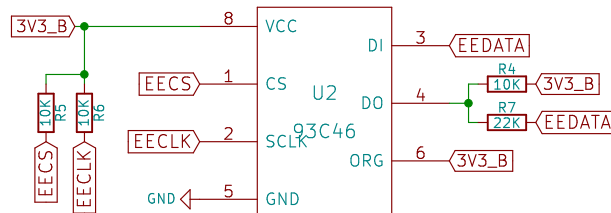


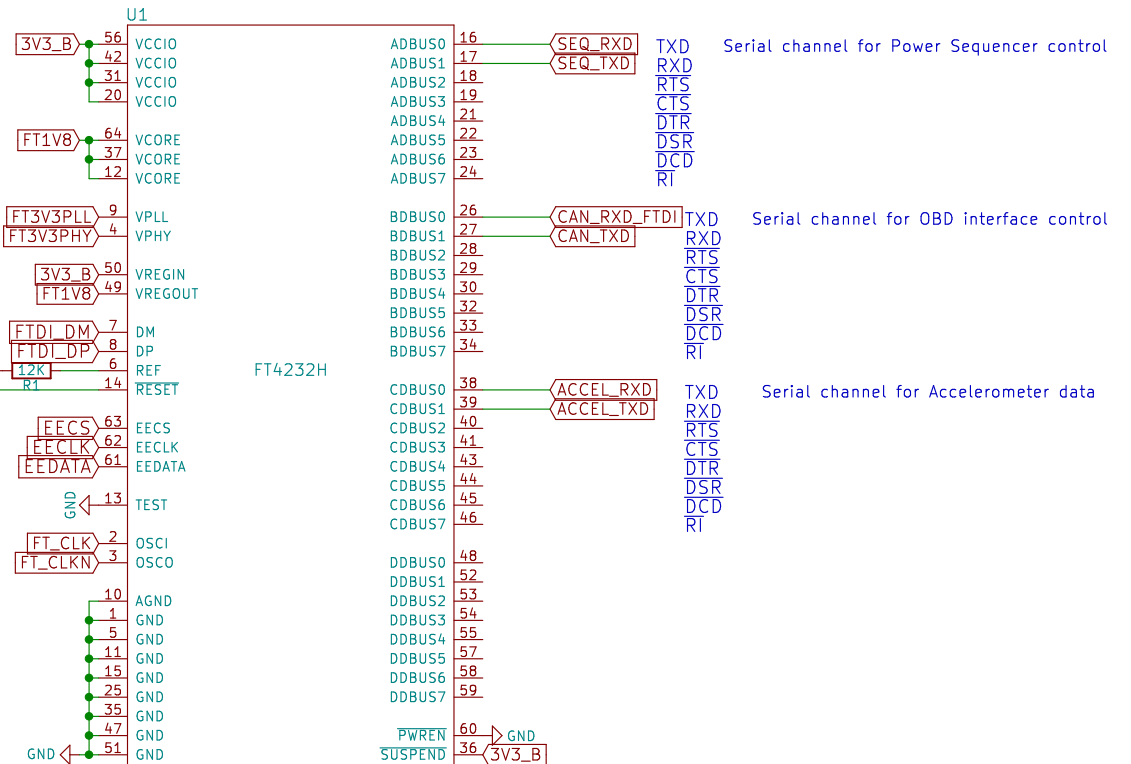
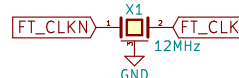
Power Filtering



FTDI Device Configuration EEPROM



12MHz FTDI USB Clock



Manager: Magnus Feuer

Advisor: Rudolf Steif

Designer: Jesse Banks

Jaguar Land Rover OSTC

Sheet: /V2X FTDI Sub/

File: V2X_FTDI.sch

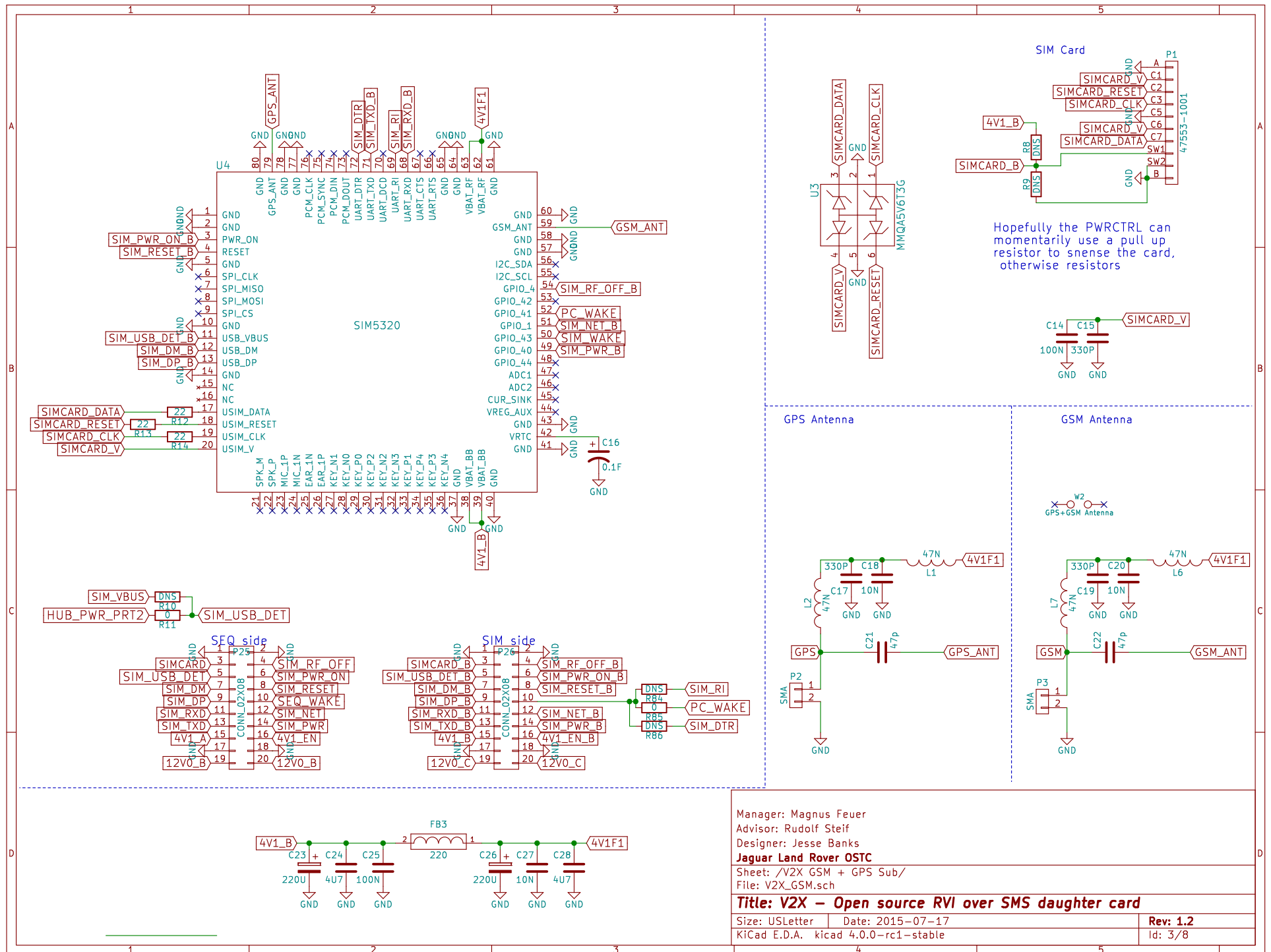
Title: V2X – Open source RVI over SMS daughter card

Size: A4 Date: 2015-07-17

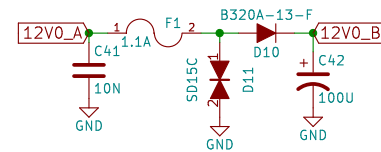
KiCad E.D.A. kicad 4.0.0-rc1-stable

Rev: 1.2

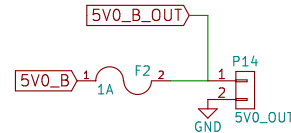
Id: 2/8



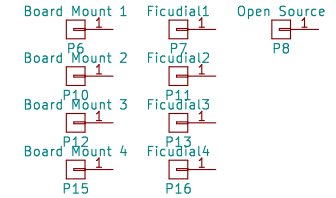
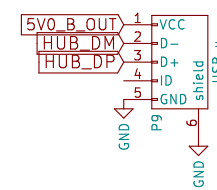
Vehicle Power Input Filtering and ESD Spike Suppression



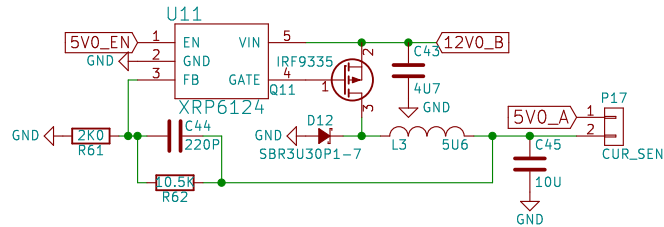
HOST Power Connection



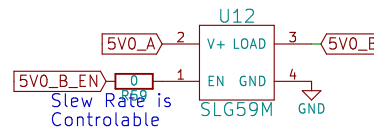
HUB Data, HOST Power



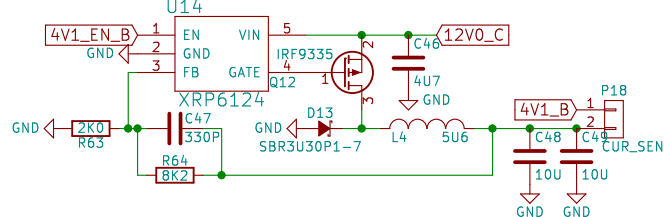
5V @ 1.25A DC-DC Power Supply



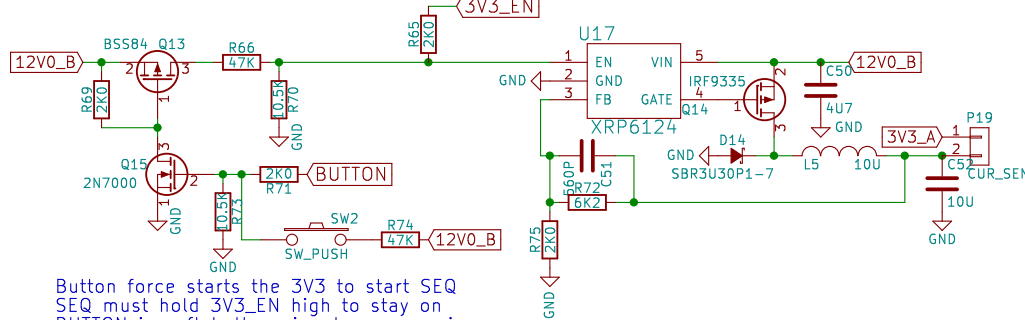
HOST 5V0 rail



4.1V @ 1.5A DC-DC Power Supply

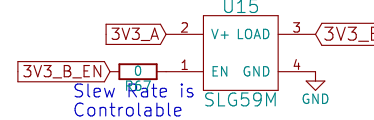


3.3V @ 1A DC-DC Power Supply

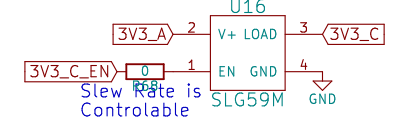


Button force starts the 3V3 to start SEQ
SEQ must hold 3V3_EN high to stay on
BUTTON is soft button signal once running
3V3_EN pulled low kills supply regardless if button pressed

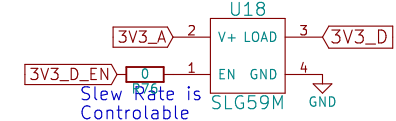
HUB & FTDI 3V3 rail



CAN 3V3 rail



Accelerometer 3V3 rail



SEQ will siphon power from 4V1
and disable the 3V3 Supply while
in Cell standby receive power state.

Manager: Magnus Feuer

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Designer: Jesse Banks

Jaguar Land Rover OSTC

Sheet: /V2X Power Sub/

File: V2X_PWR.sch

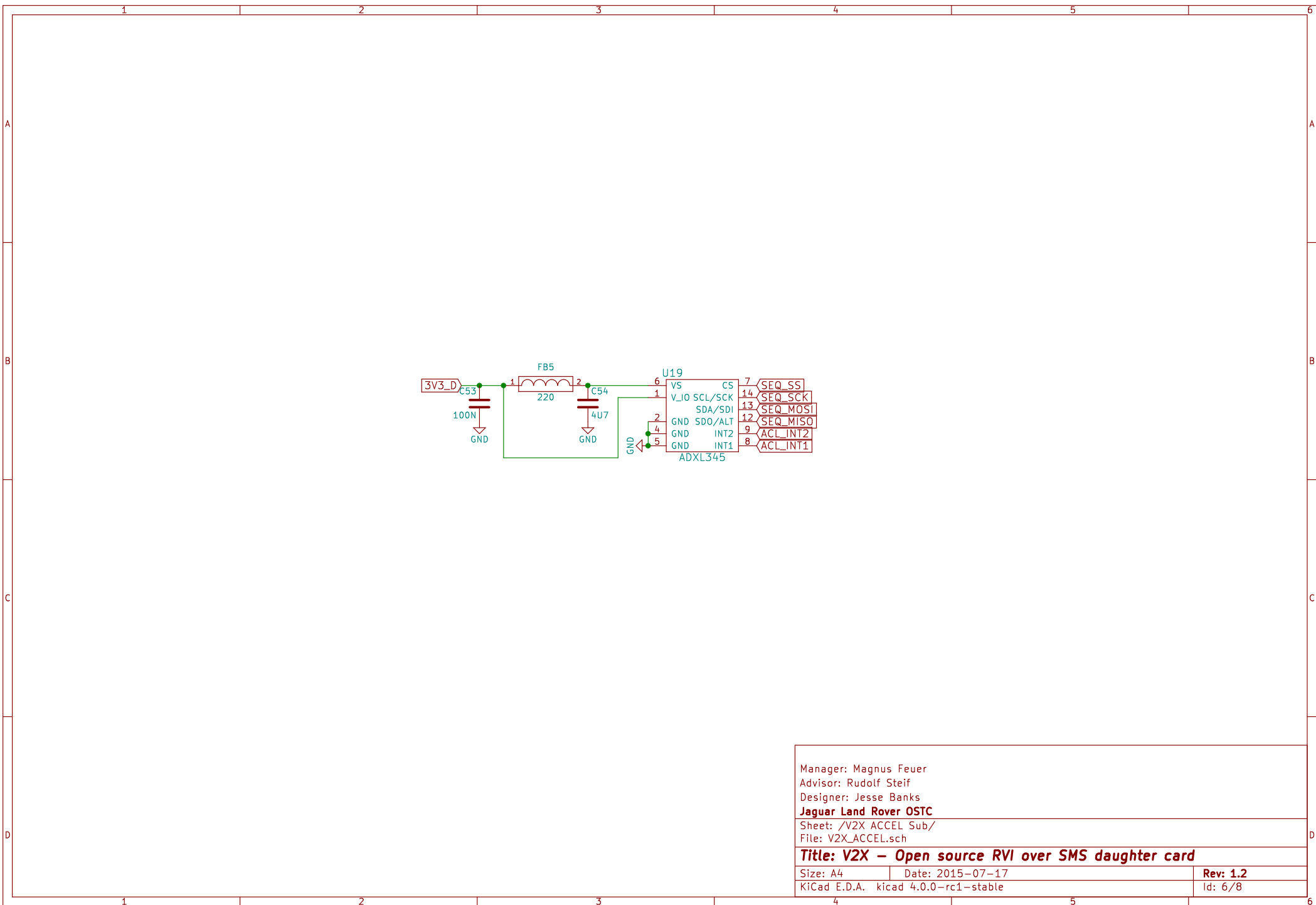
Title: V2X - Open source RVI over SMS daughter card

Size: USLetter Date: 2015-07-17

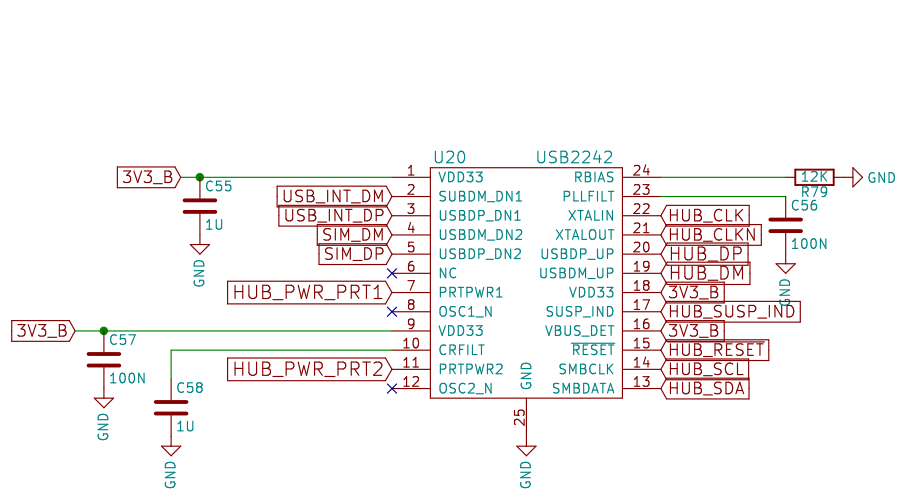
Rev: 1.2

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Id: 5/8



Manager: Magnus Feuer		
Advisor: Rudolf Steif		
Designer: Jesse Banks		
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Sheet: /V2X ACCEL Sub/		
File: V2X_ACCEL.sch		
Title: V2X – Open source RVI over SMS daughter card		
Size: A4	Date: 2015–07–17	Rev: 1.2
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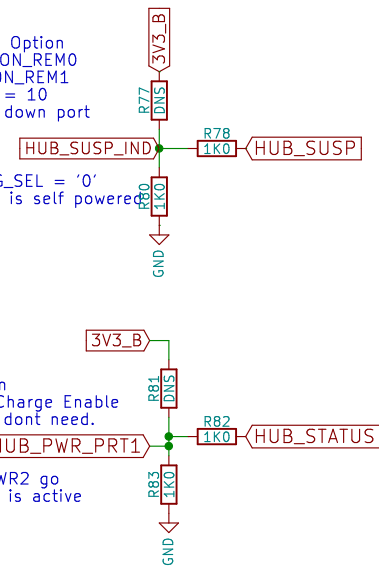
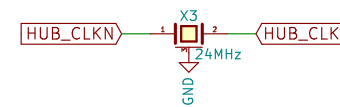


Boot Strapping Option
 SUSP_IND = NON_REMO
 SMBDATA = NON_REM1
 NON_REM[1:0] = 10
 means neither down port
 is removable

SMBCLK = CFG_SEL = '0'
 Means the hub is self powered

Boot Strapping Option
 PRT_PWR1 = Battery Charge Enable
 0 = feature off, we dont need.

PRT_PWR1 and PRT_PWR2 go
 high when the port is active



Manager: Magnus Feuer	
Advisor: Rudolf Steif	
Designer: Jesse Banks	
Jaguar Land Rover OSTC	
Sheet: /V2X Hub Sub/	
File: V2X_HUB.sch	
Title: V2X – Open source RVI over SMS daughter card	
Size: A4	Date: 2015-07-17
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Id: 7/8	

