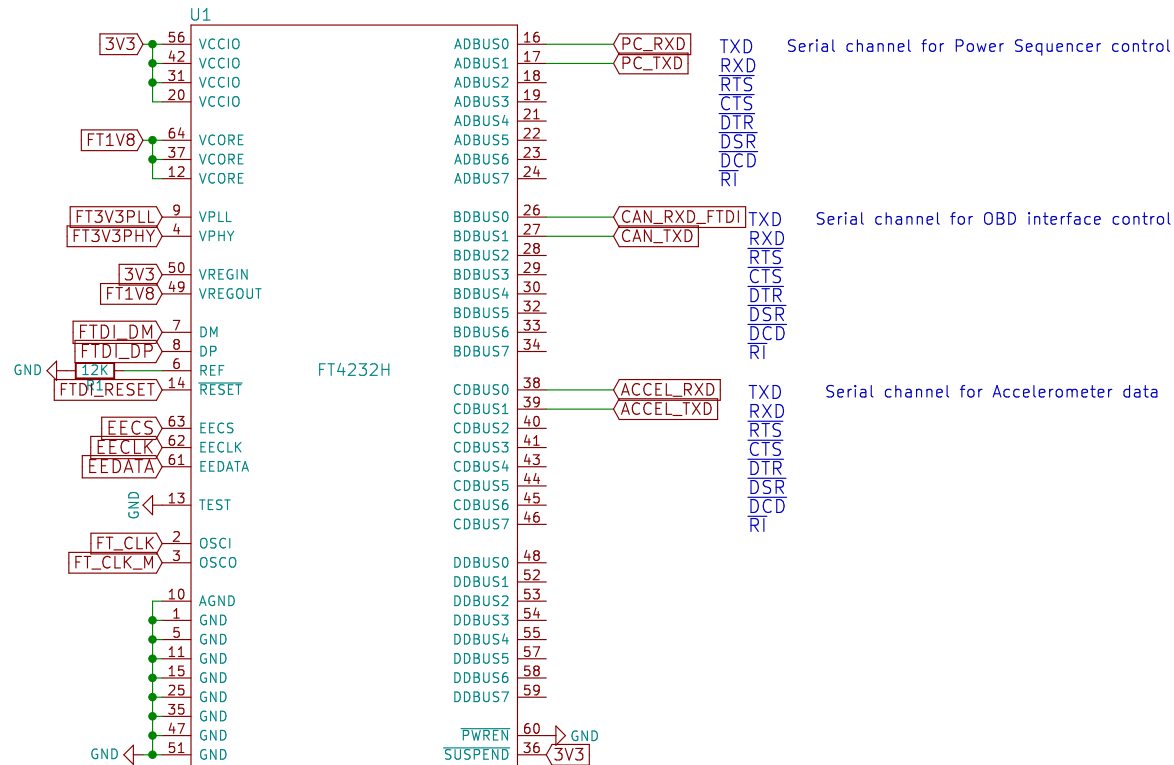
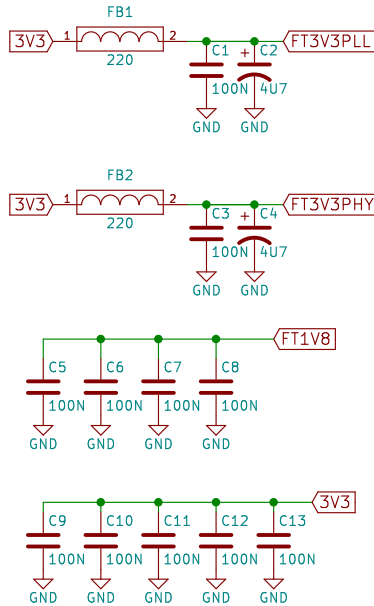


Power Filtering

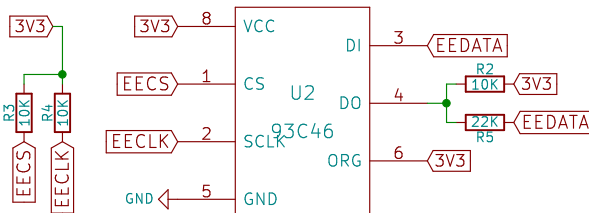


Serial channel for Power Sequencer control

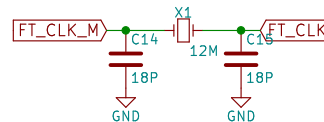
Serial channel for OBD interface control

Serial channel for Accelerometer data

FTDI Device Configuration EEPROM



12MHz FTDI USB Clock



Manager: Magnus Feuer

Advisor: Rudolf Steif

Designer: Jesse Banks

Jaguar Land Rover

Sheet: /V2X_FTDI Sub/

File: V2X_FTDI.sch

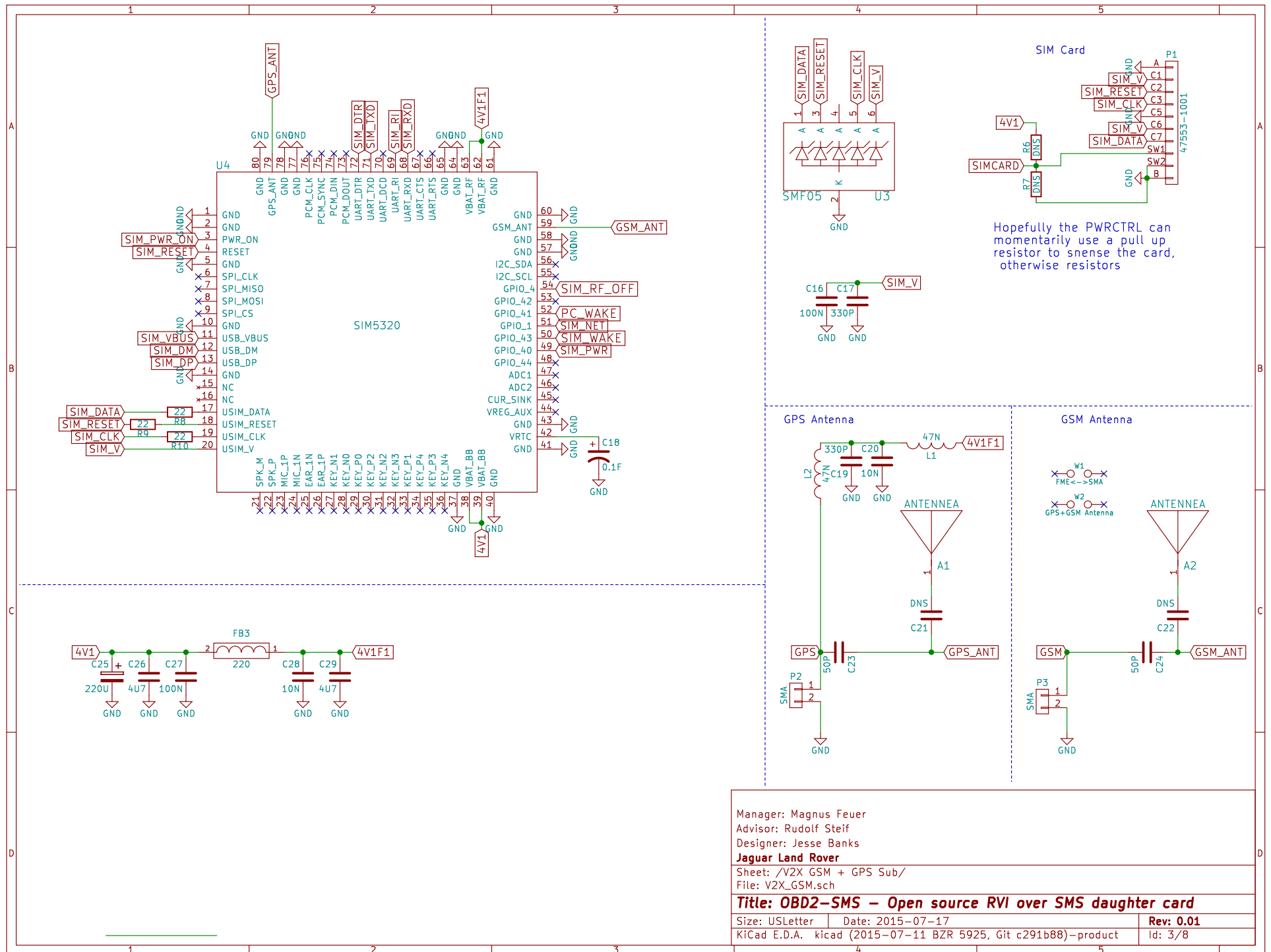
Title: OBD2-SMS – Open source RVI over SMS daughter card

Size: A4 Date: 2015-07-17

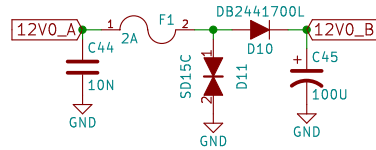
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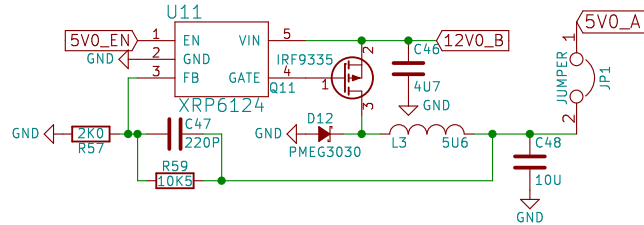
Id: 2/8



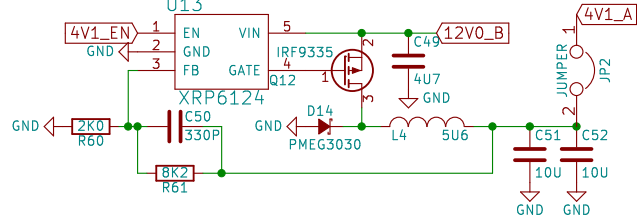
Vehicle Power Input Filtering and Spike Suppression



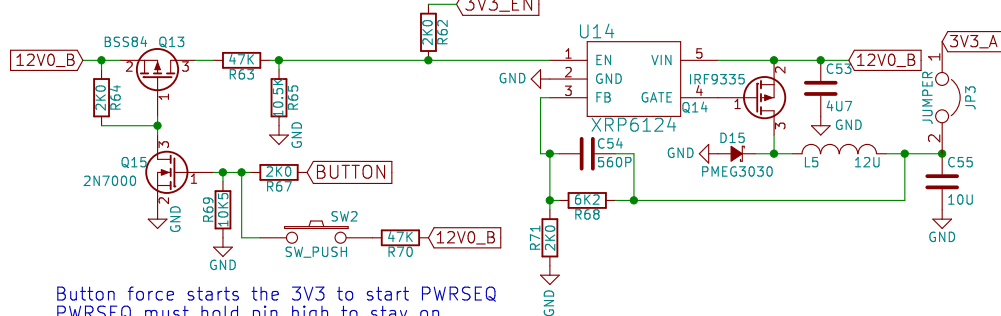
5V @ 1.25A DC-DC Power Supply



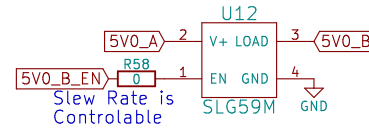
4.1V @ 1.5A DC-DC Power Supply



3.3V @ 1A DC-DC Power Supply

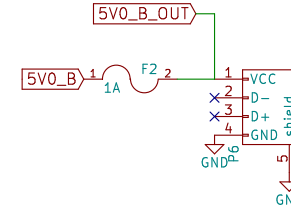


Button force starts the 3V3 to start PWRSEQ
PWRSEQ must hold pin high to stay on
Button acts soft button once running

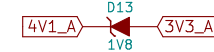
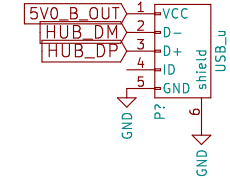


Slew Rate is Controllable

HOST Power Connection

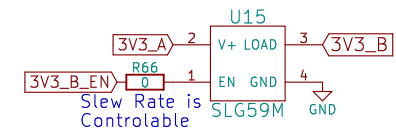


HUB Data, HOST Power

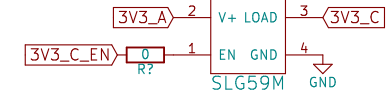


PWRSEQ will siphon power from 4V1 and disable the 3V3 Supply while in Cell standby receive power state.

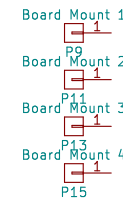
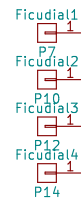
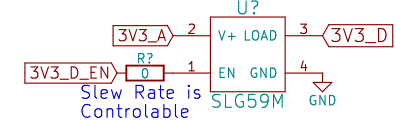
HUB & FTDI 3V3 rail



CAN 3V3 rail



Accelerometer 3V3 rail



Manager: Magnus Feuer
Advisor: Rudolf Steif
Designer: Jesse Banks

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Sheet: /V2X Power Sub/
File: V2X_PWR.sch

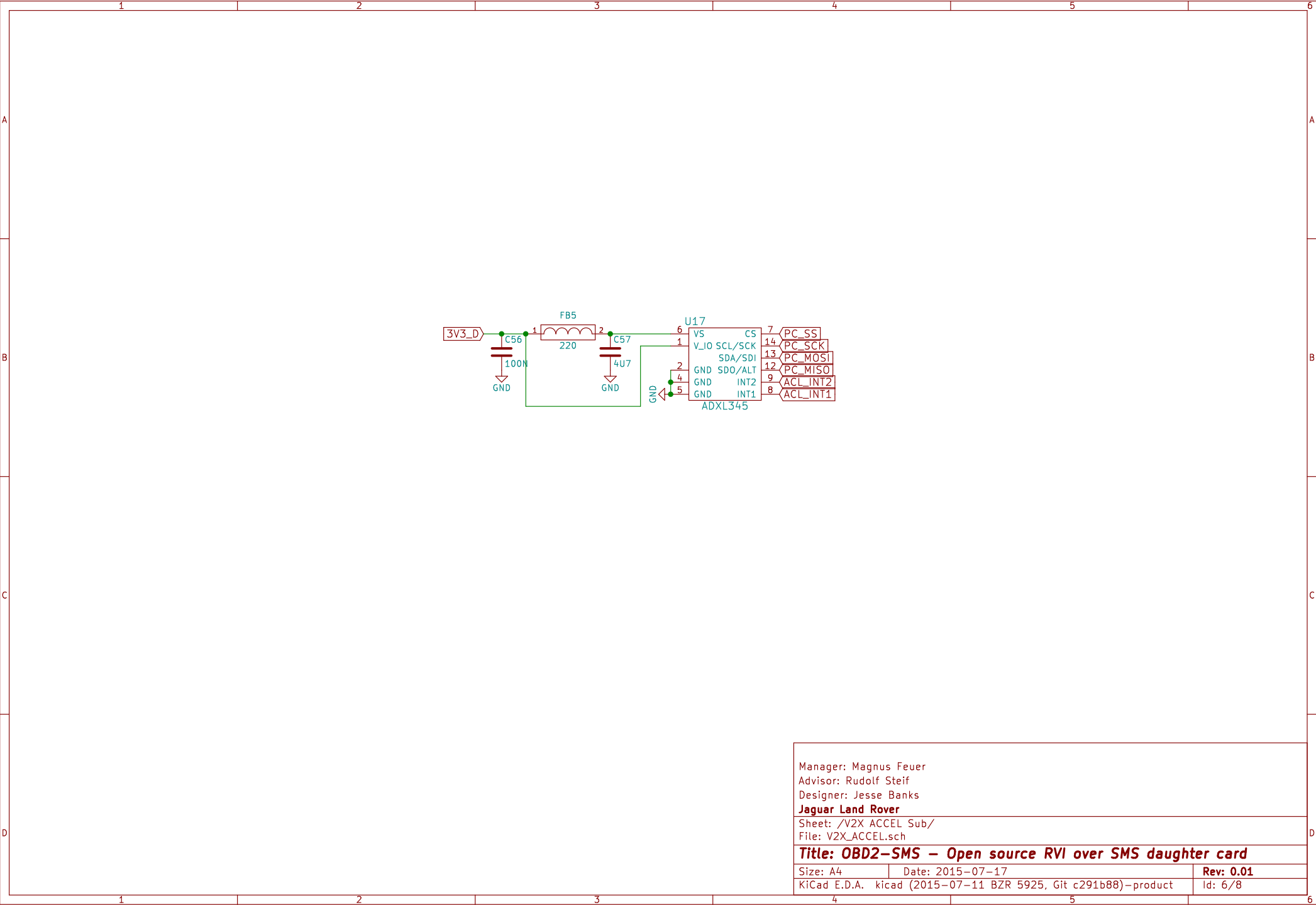
Title: OBD2-SMS - Open source RVI over SMS daughter card

Size: USLetter Date: 2015-07-17

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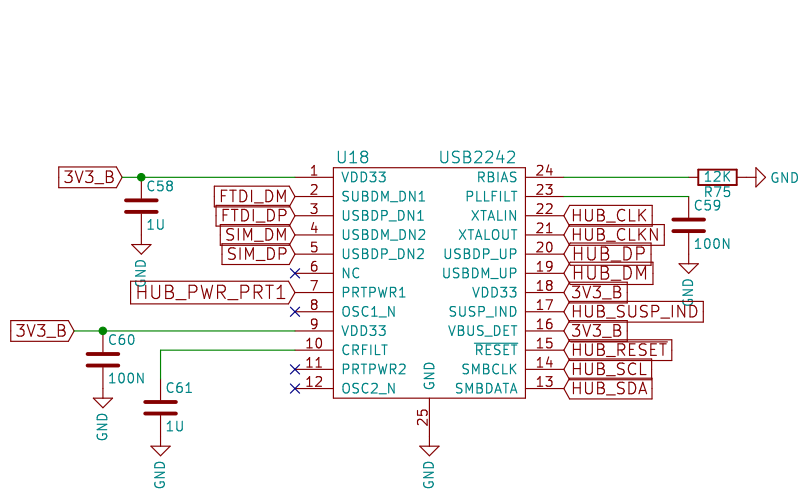
Manager: Magnus Feuer
Advisor: Rudolf Steif
Designer: Jesse Banks

Jaguar Land Rover

Sheet: /V2X ACCEL Sub/
File: V2X_ACCEL.sch

Title: OBD2-SMS – Open source RVI over SMS daughter card

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|---|------------------|-----------|
| Size: A4 | Date: 2015-07-17 | Rev: 0.01 |
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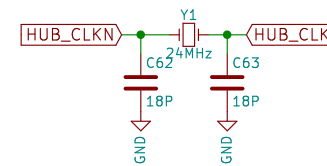


Boot Strapping Option
 SUSP_IND = NON_REMO
 SMBDATA = NON_REM1
 NON_REM[1:0] = 10
 means neither down port
 is removable

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

Boot Strapping Option
 PRT1PWR1 = Battery Charge Enable
 0 = feature off, we dont need.

PRT1PWR1 and PRT1PWR2 go
 high when the port is active



| | | |
|---|-------|---------|
| Sheet: /V2X Hub Sub/ File: V2X_HUB.sch | | |
| Title: | | |
| Size: A4 | Date: | Rev: |
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