

# COMMUNICATION SUBSYSTEM MAIN BOARD

## TABLE OF CONTENTS

SHEET	SHEET_NAME
1	Title Page and TOC
2	Main Block Diagram
3	Power Block Diagram
4	7.4V Battery Power Management
5	11.1V Battery Power Management
6	11.1V Battery Power Management
7	GPS Module
8	Transceiver Audio Jumpers
9	COMMS Sensors
10	COMMS Video
11	NTSC Camera Voltage Control
12	COMMS Connectors (1 of 2)
13	COMMS Connectors (2 of 2)

Inductor parameters labeled in schematics: Name, Tolerance, Value, DC Current, Saturation Current, Max DC Resistance

Resistor parameters labeled in schematics: Name, Tolerance, Value, Power

Capacitor parameters labeled in schematics: Name, Value, Tolerance, Voltage Rating

LOGO

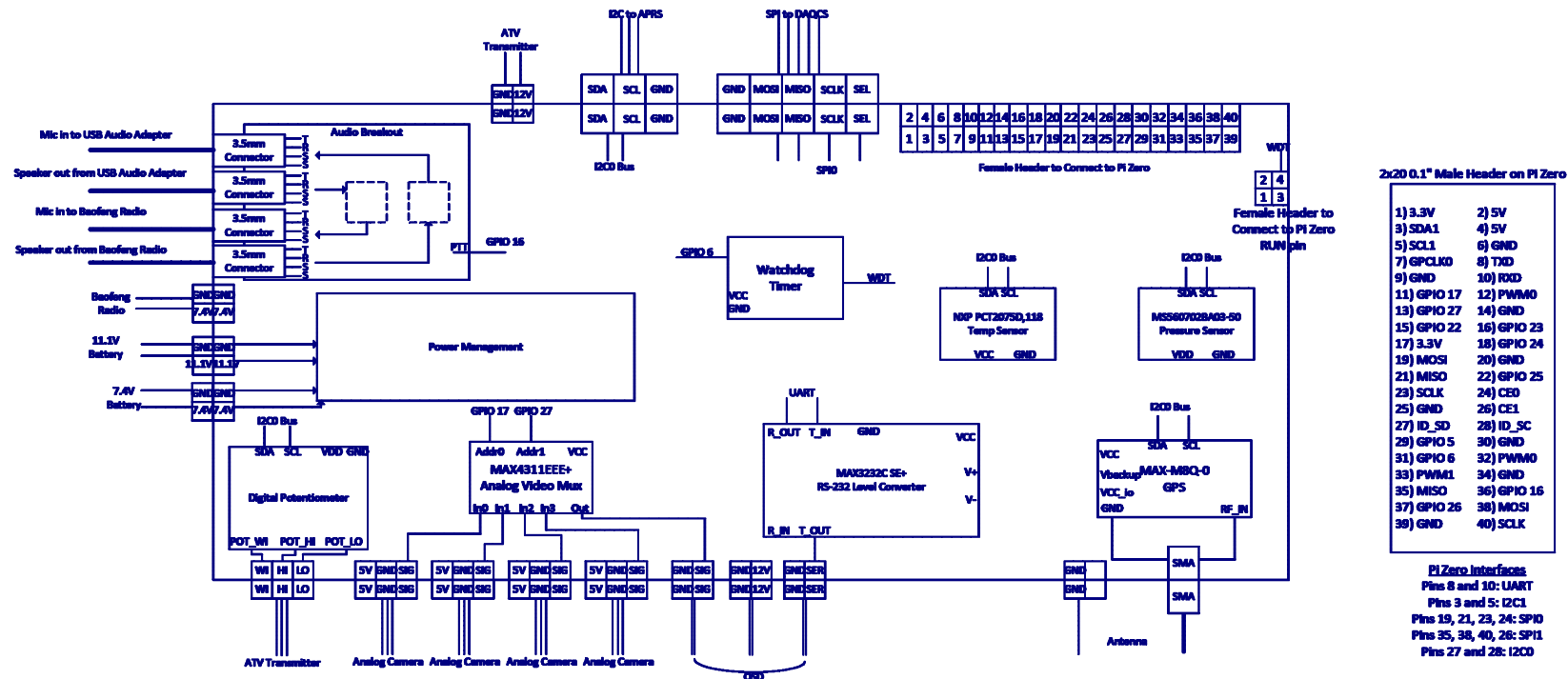
Title Page and TOC

Comms\_Main

2/26/2017 7:43 PM

Sheet: 1/13

# COMMS Custom PCB Block Diagram



NOTE: See next page for a block diagram of the Power Management portion

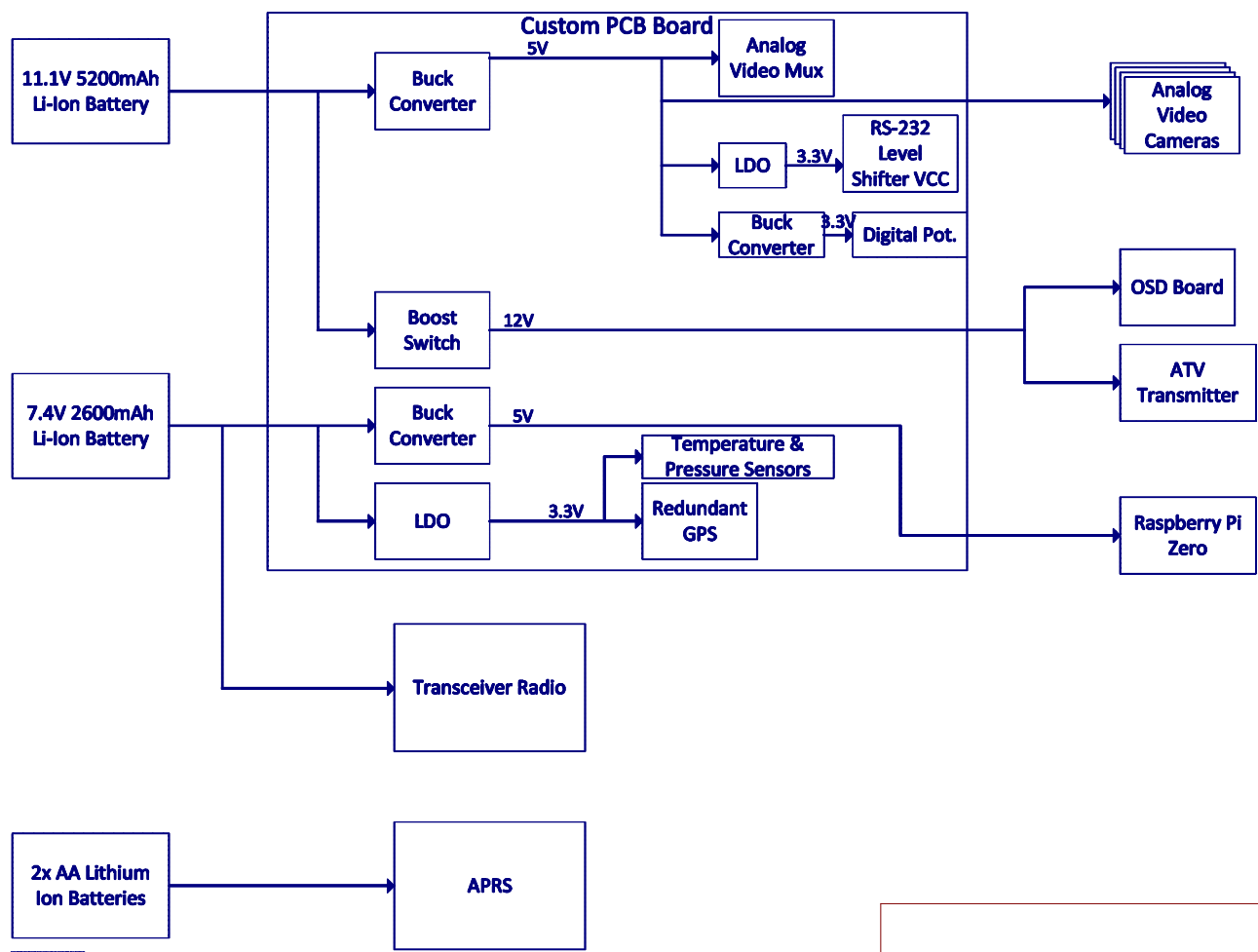
Main Block Diagram

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2/26/2017 7:43 PM

Sheet: 2/13

# Communication Subsystem Power Management



Power Block Diagram

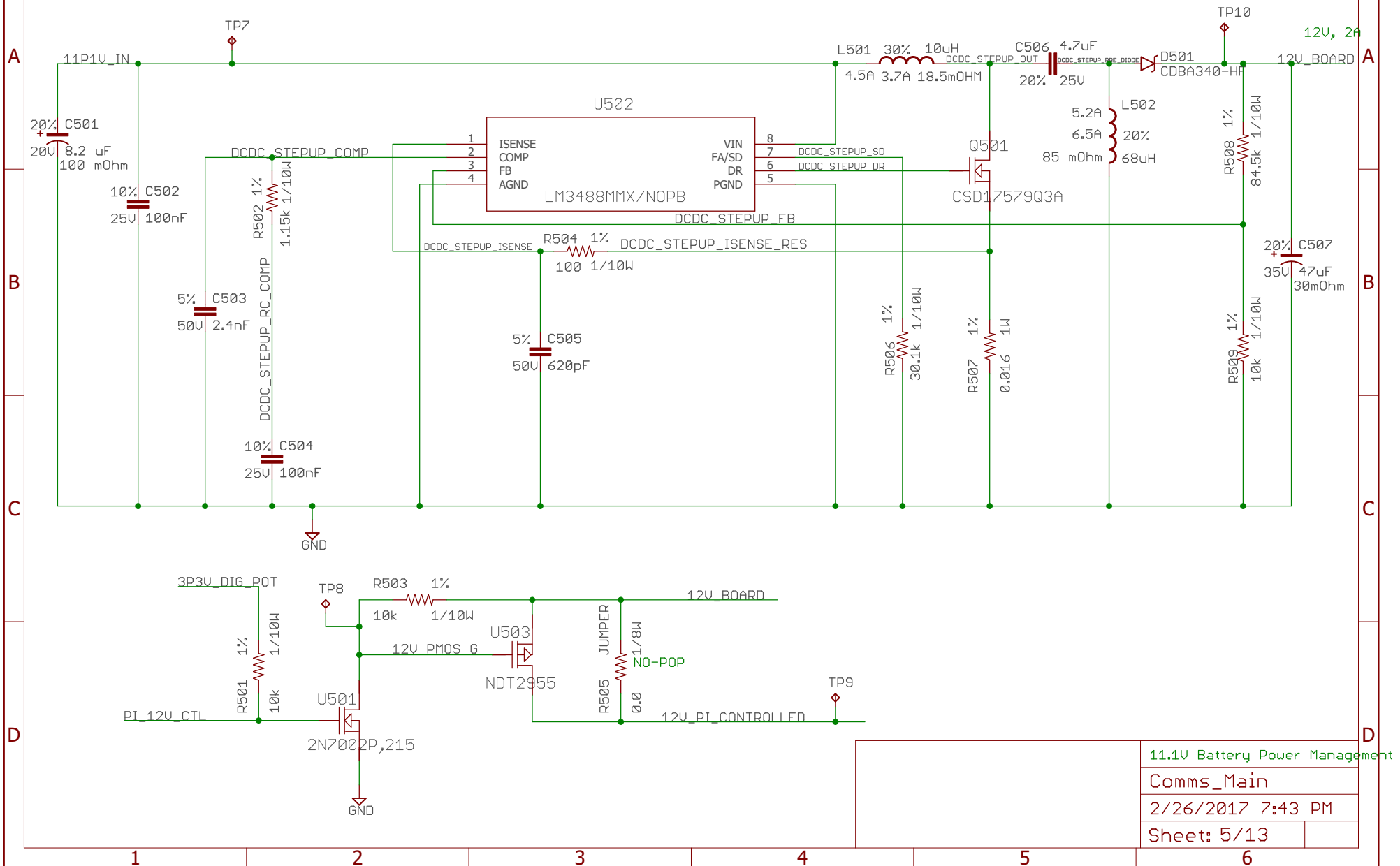
Comms\_Main

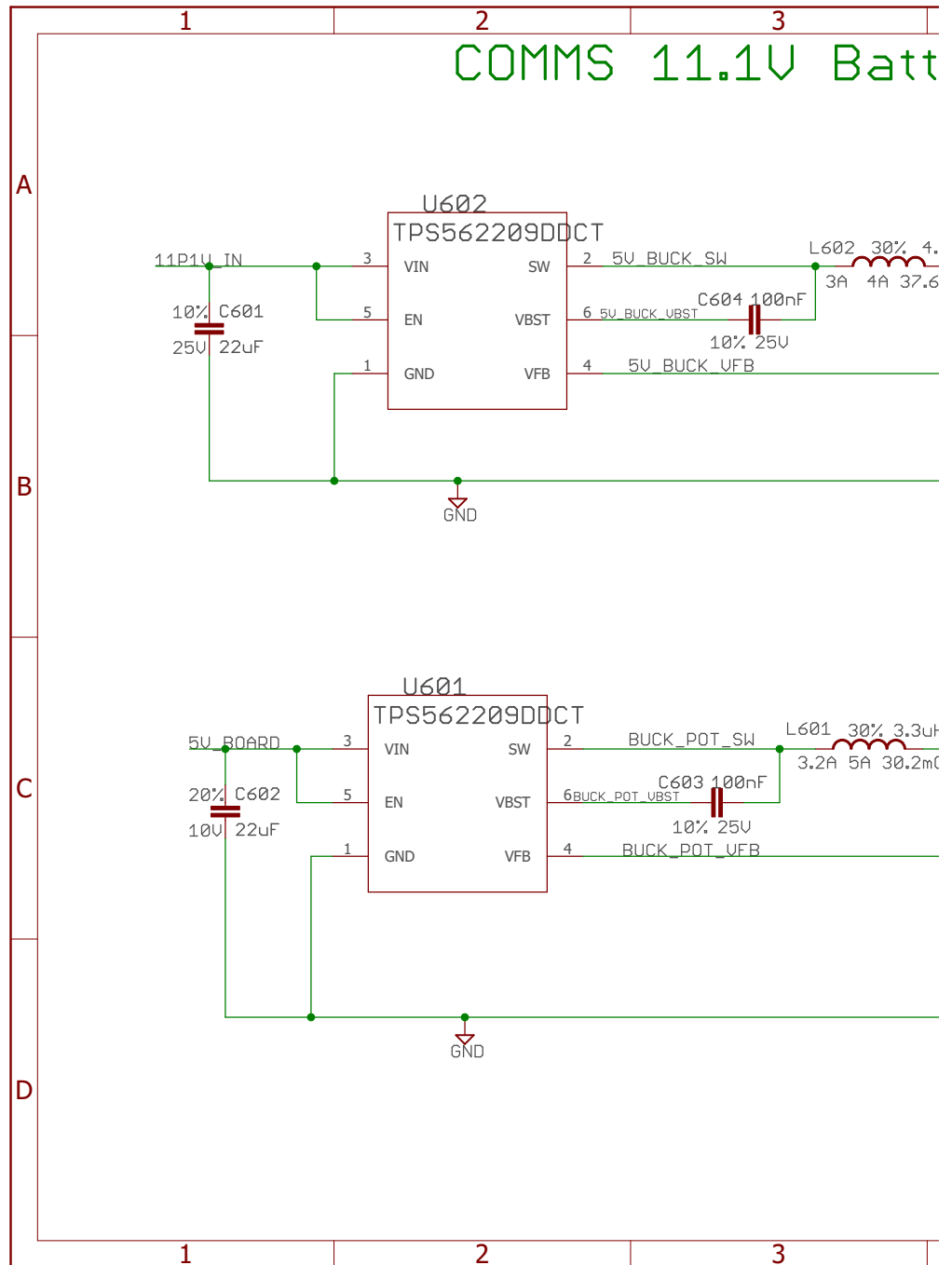
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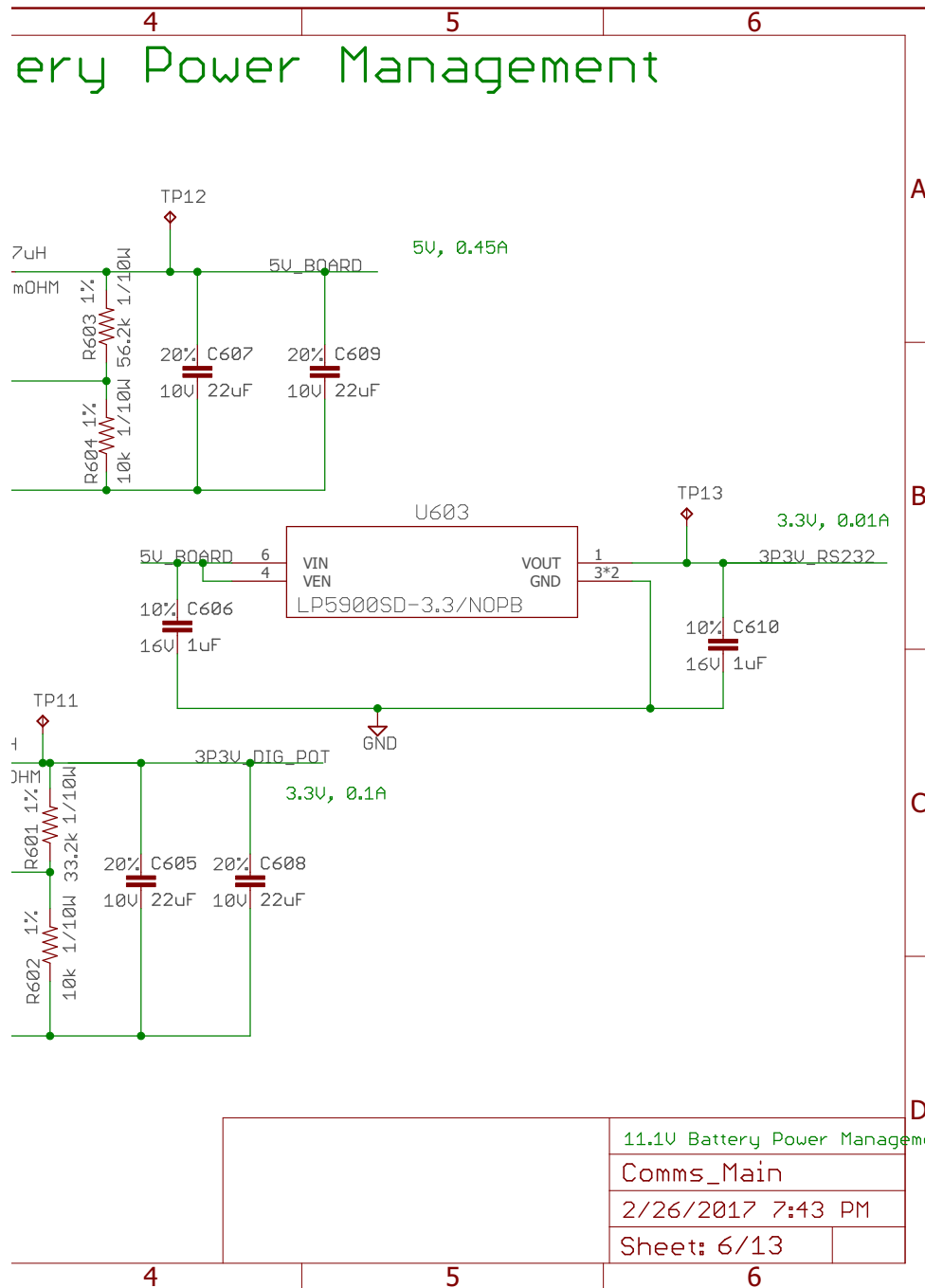
Sheet: 3/13

7.4V Battery Power Management	
Comms_Main	
2/26/2017 7:43 PM	
Sheet: 4/13	

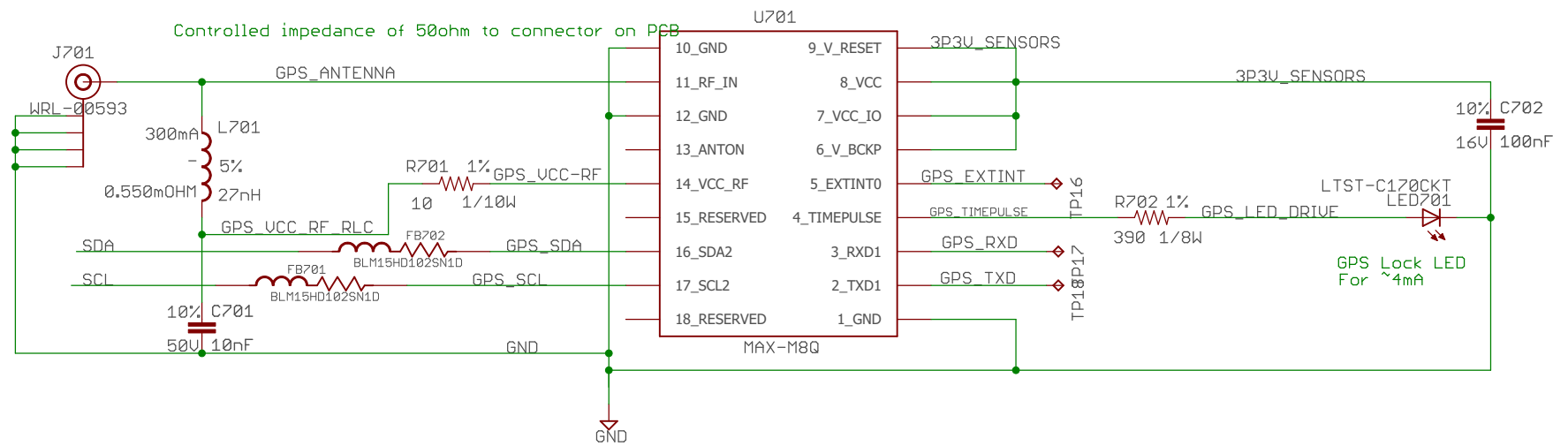
# COMMS 11.1V Battery Power Management







# COMMS MAX-M8Q Primary 2m GPS



GPS Module

Comms\_Main

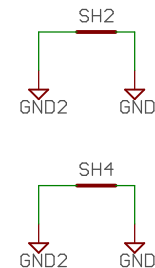
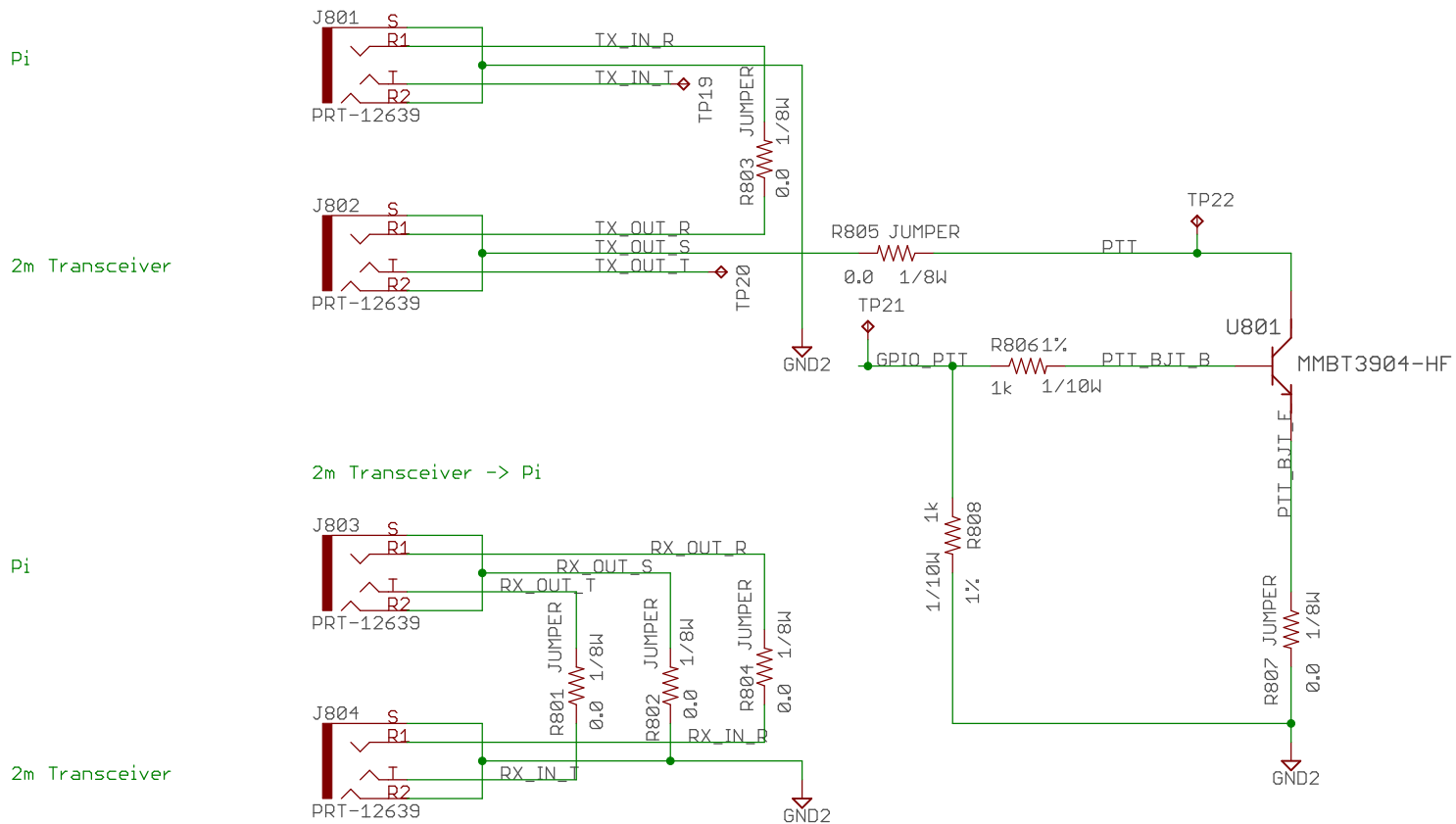
2/26/2017 7:43 PM

Sheet: 7/13



# COMMS 2m Transceiver Audio Jumpers

Pi -> 2m Transceiver



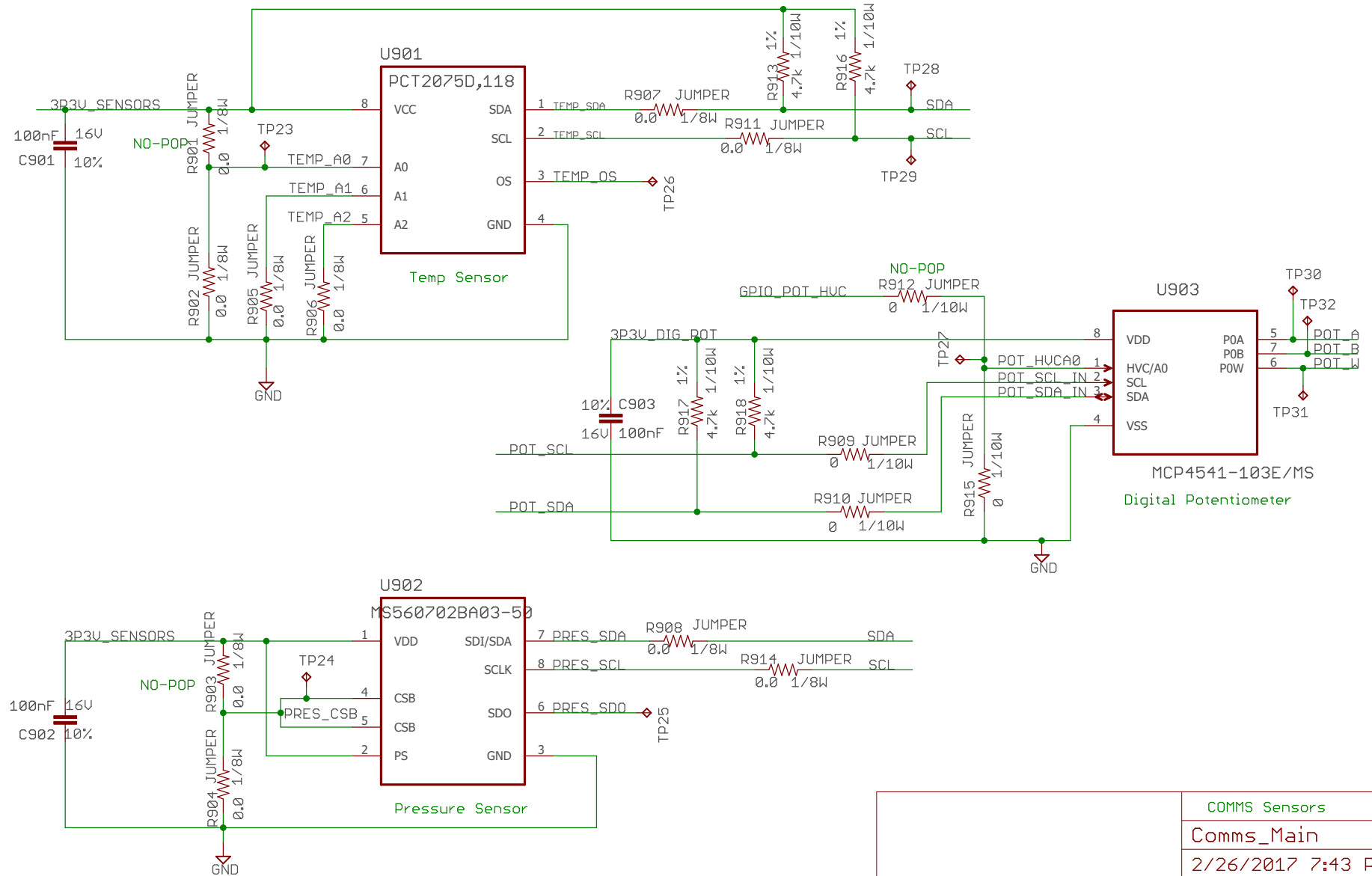
Transceiver Audio Jumpers

Comms\_Main

2/26/2017 7:43 PM

Sheet: 8/13

# COMMS Sensors



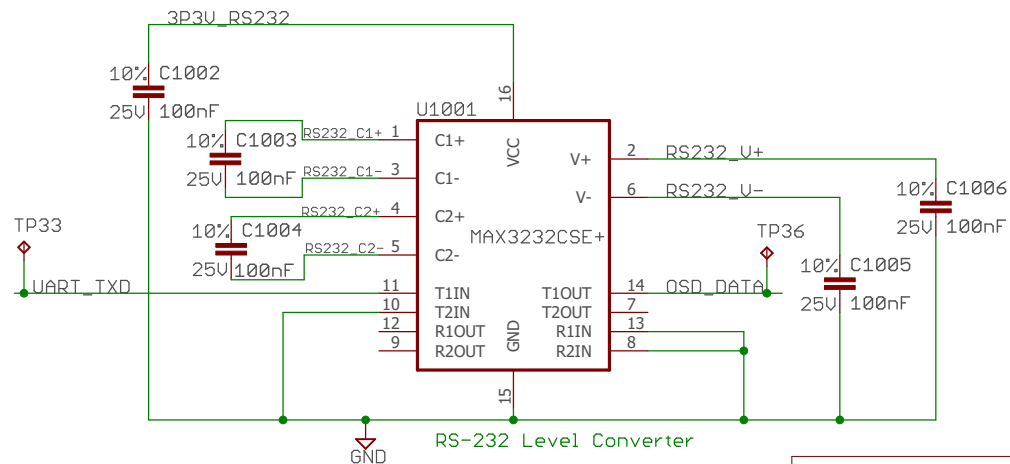
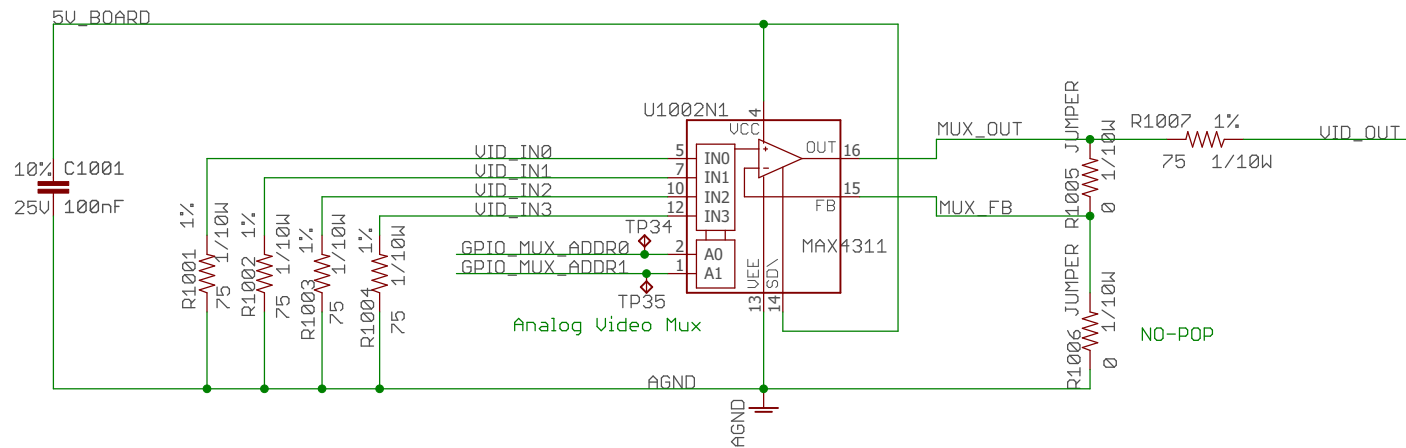
COMMS Sensors

Comms\_Main

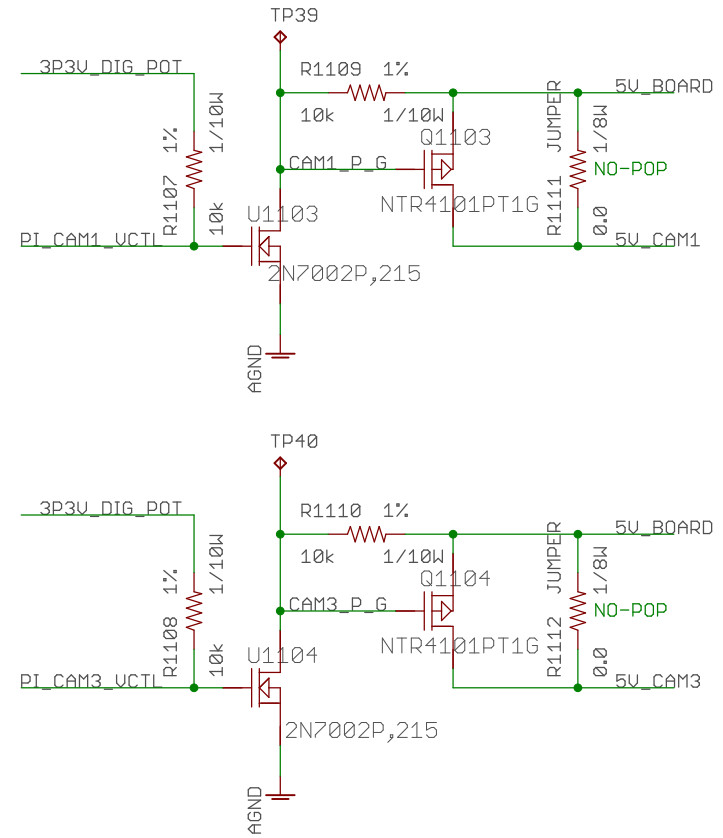
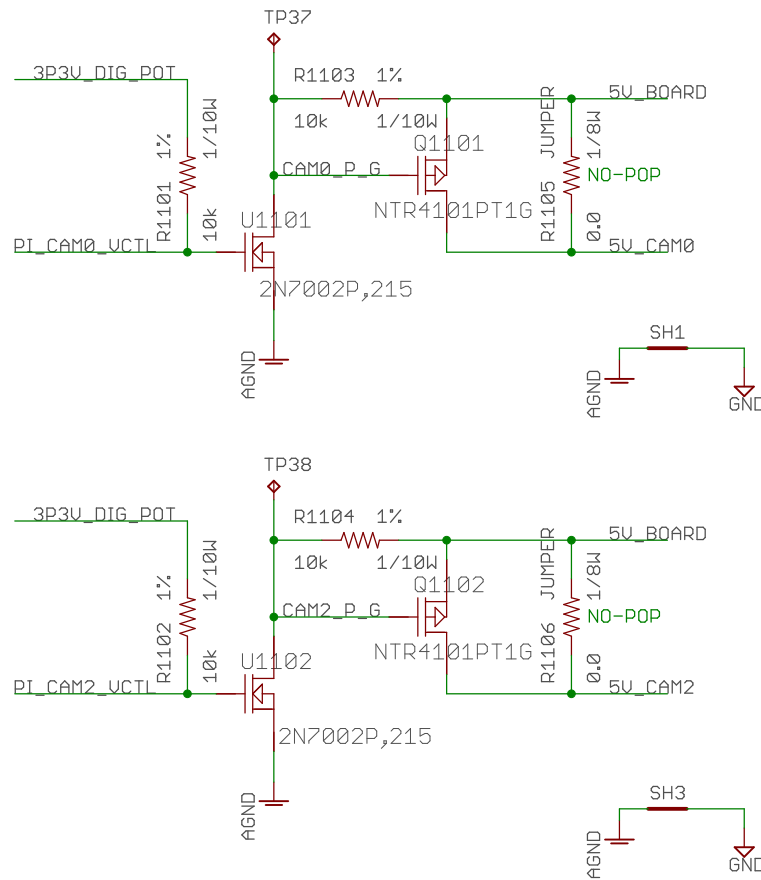
2/26/2017 7:43 PM

Sheet: 9/13

# COMMS Video



# NTSC Camera Voltage Control



# COMMS Connectors (2m/Pi)

OUTLINE1201

RASPI-ZERO-4STANDOFFS-0CAM

Pi Zero Outline and Standoff Holes

A

B

C

D

A

B

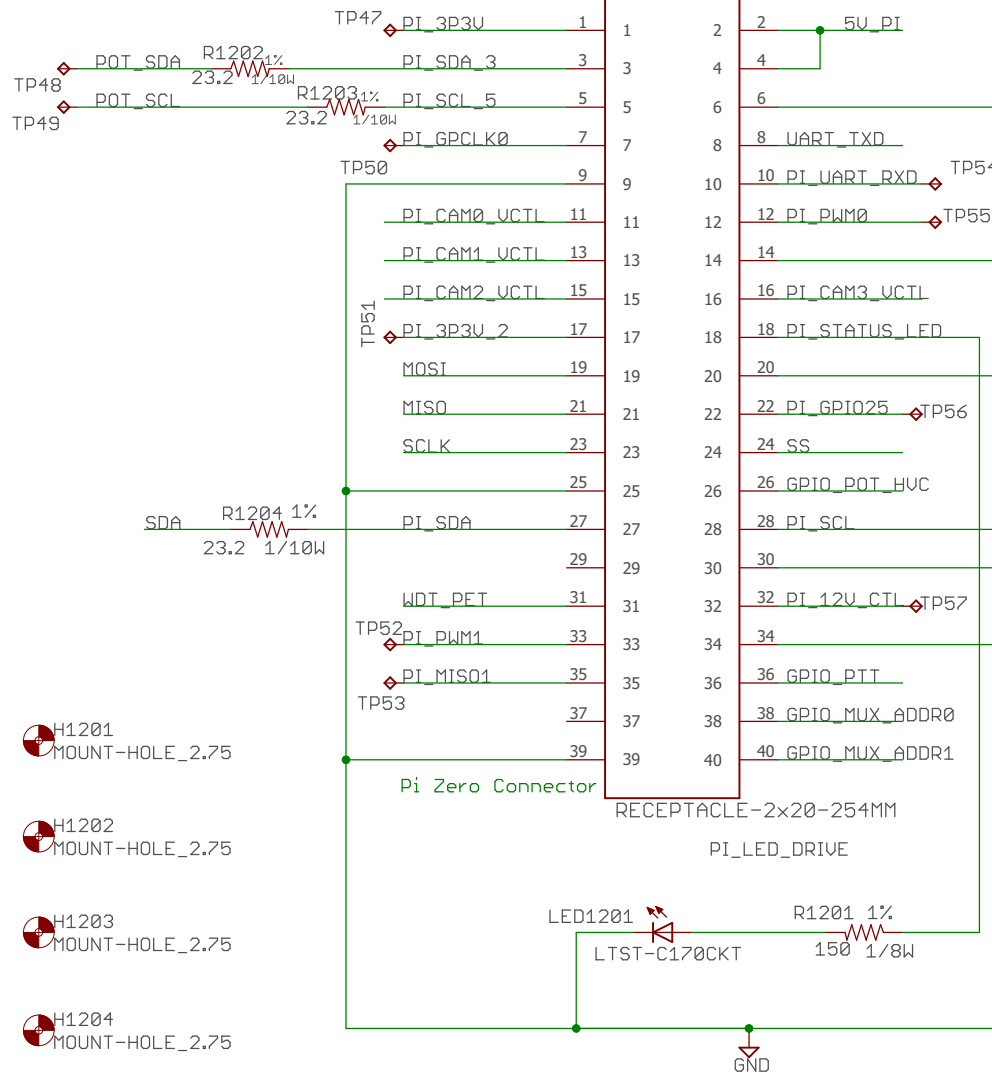
C

D

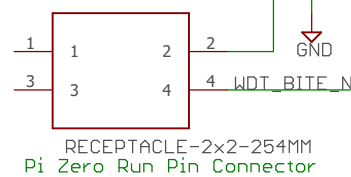
2x20 Male Header

2x2 Male Header

J1201

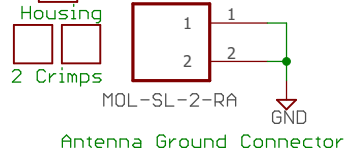


J1202



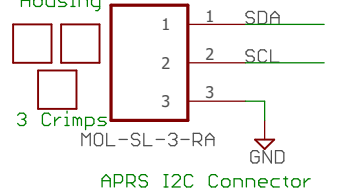
Housing

J1203



Housing

J1204

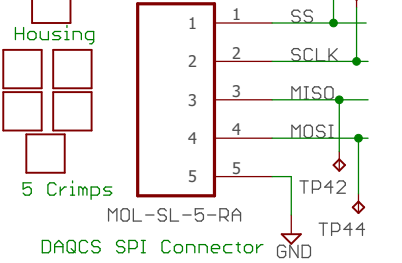


Connectors between APRS and its battery (off-board):

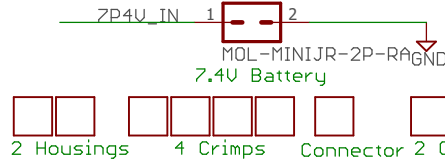
Housing Connector 2 Crimps

Housing

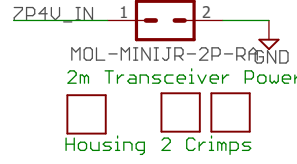
J1205



J1206



J1207



COMMS Connectors (1 of 2)

Comms\_Main

2/26/2017 7:43 PM

Sheet: 12/13

# COMMS CONNECTORS (70cm/Cameras)

