

# 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	COMMS Connectors

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

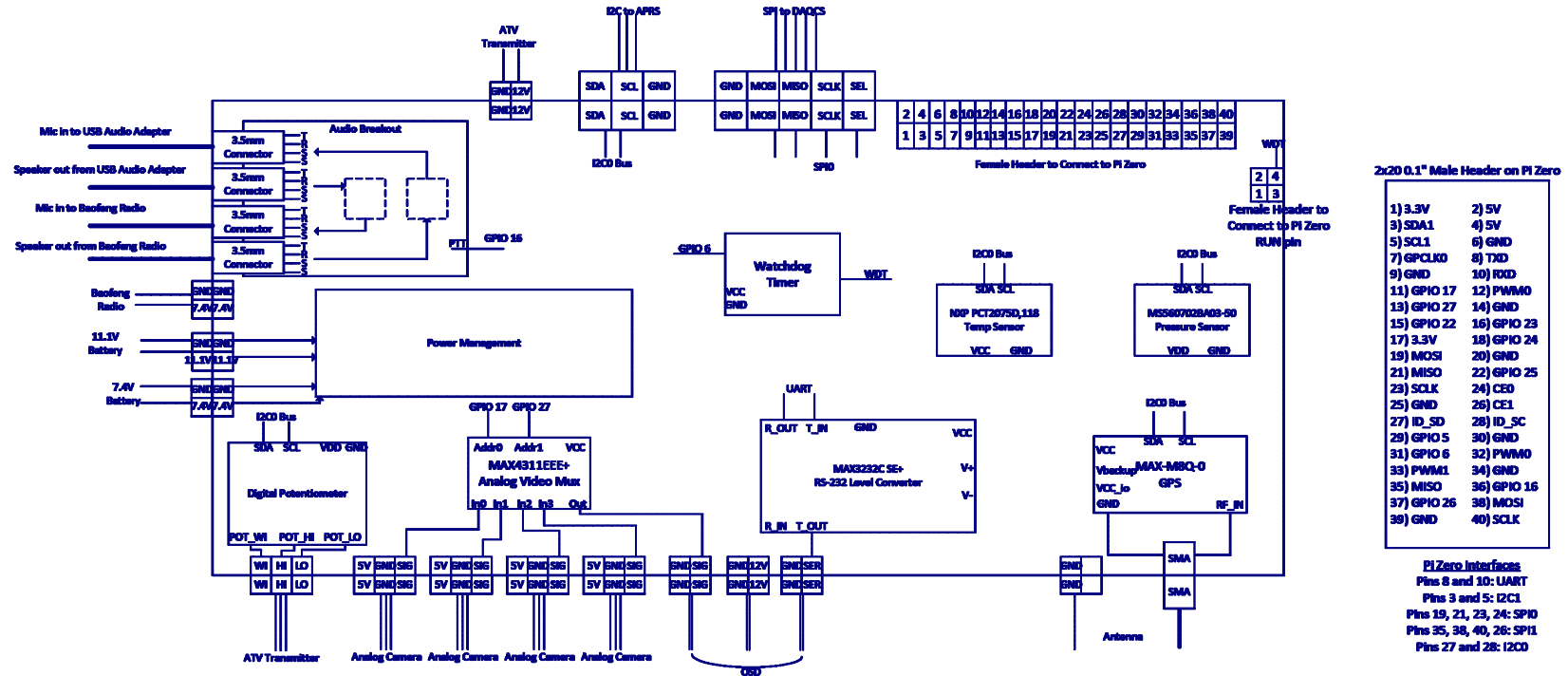
Title Page and TOC

Comms\_Main

2/1/2017 4:28 PM

Sheet: 1/11

# COMMS Custom PCB Block Diagram



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

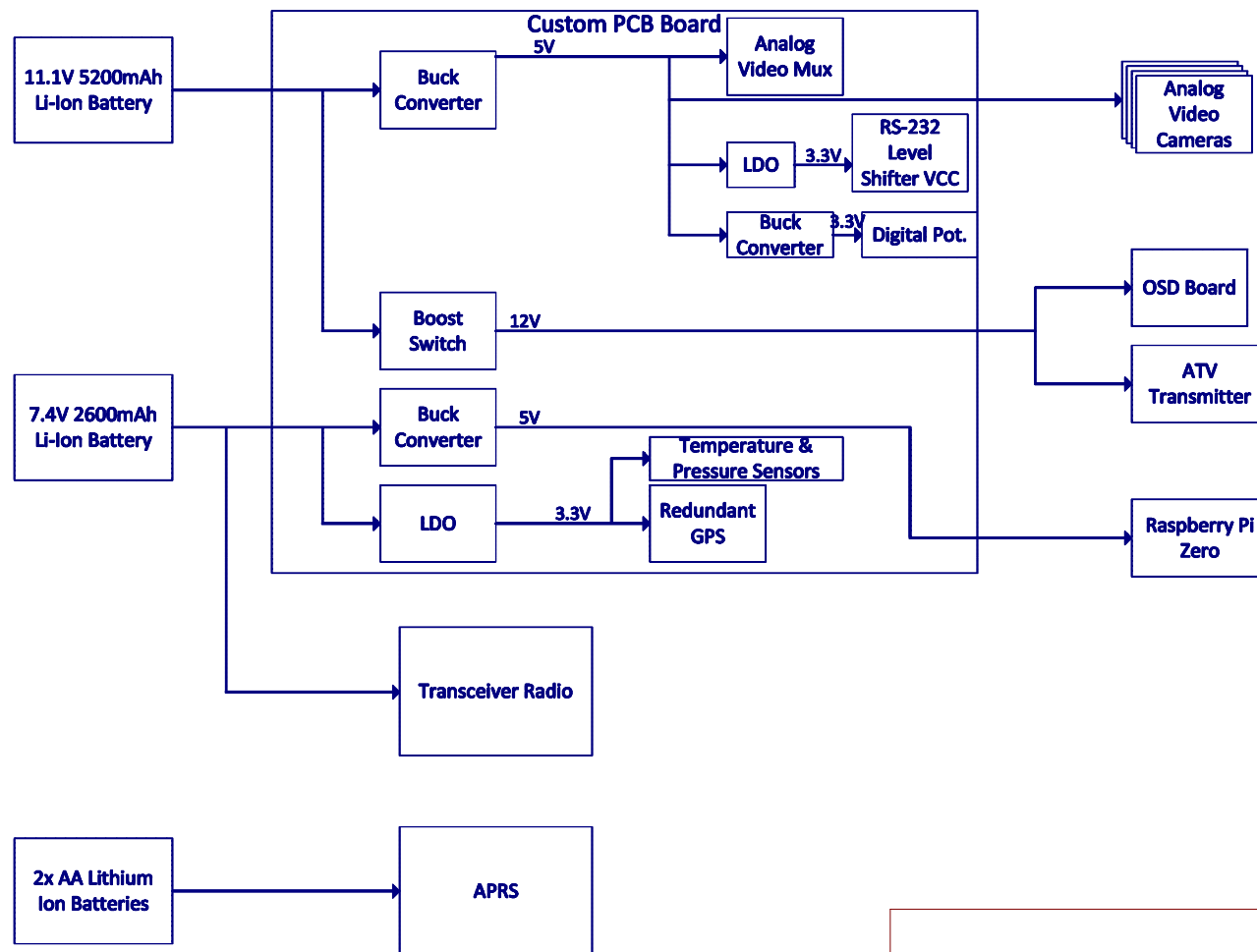
Main Block Diagram

Comms\_Main

2/1/2017 4:28 PM

Sheet: 2/11

# Communication Subsystem Power Management



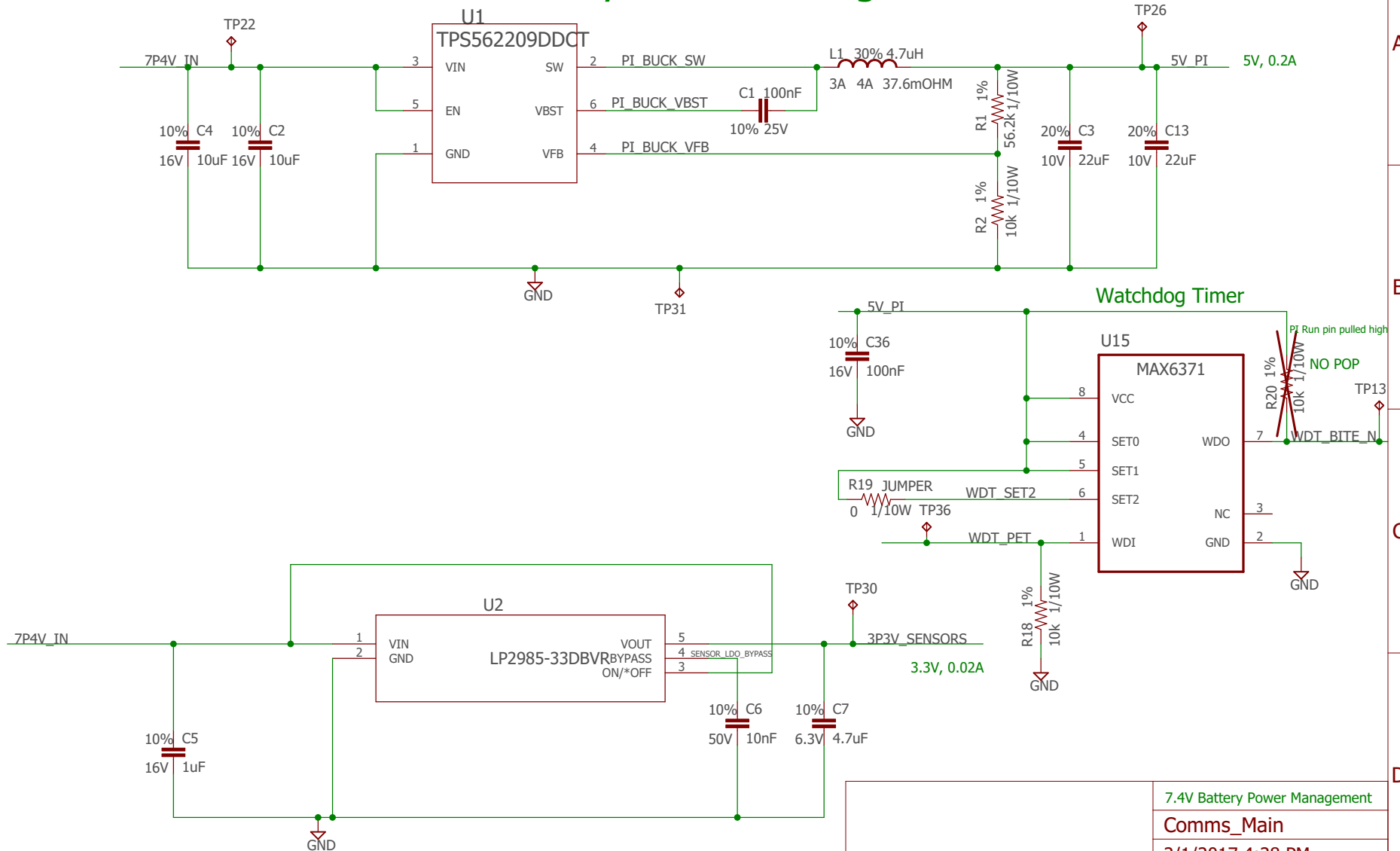
Power Block Diagram

Comms\_Main

2/1/2017 4:28 PM

Sheet: 3/11

# COMMS 7.4V Battery Power Management



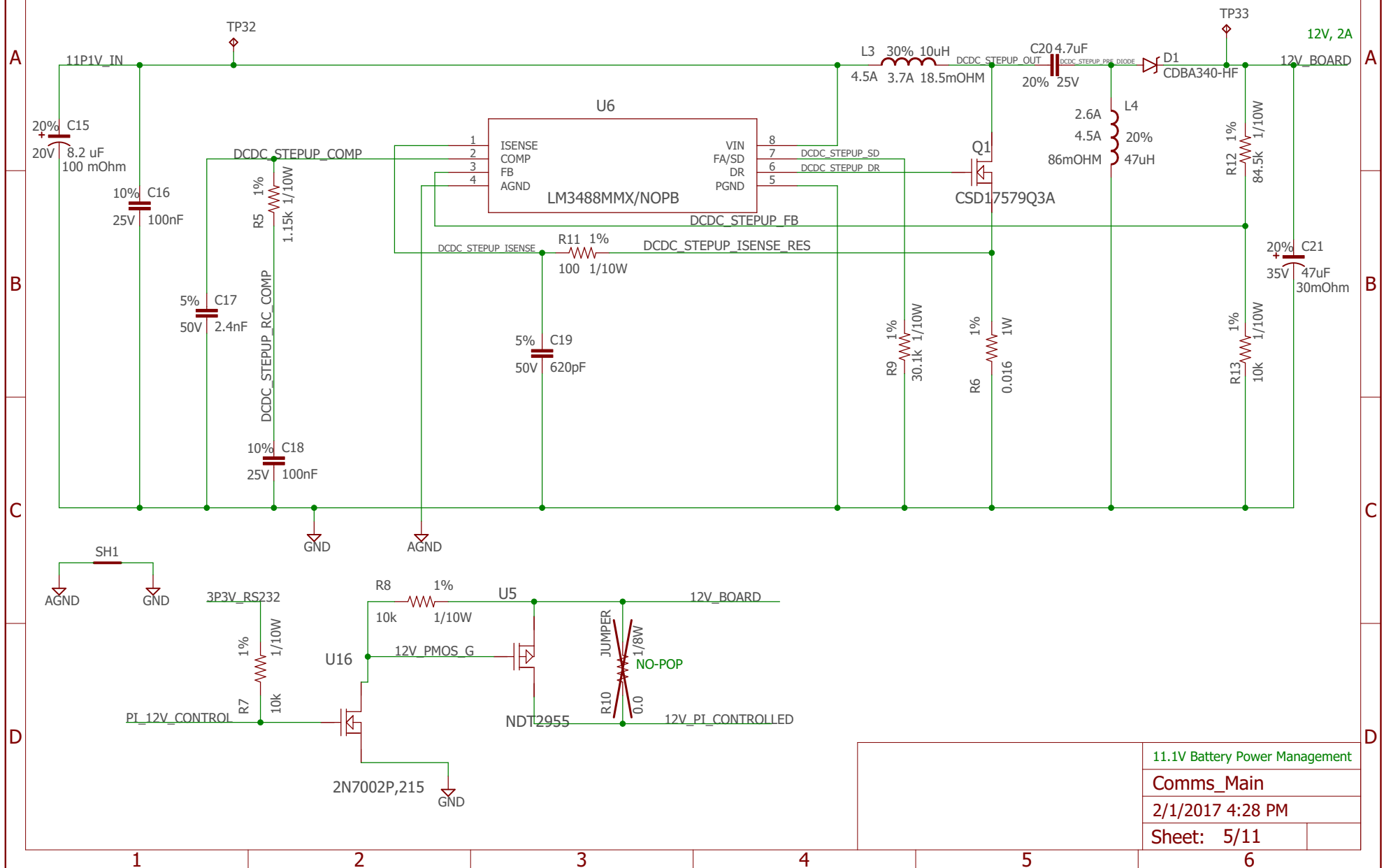
7.4V Battery Power Management

Comms\_Main

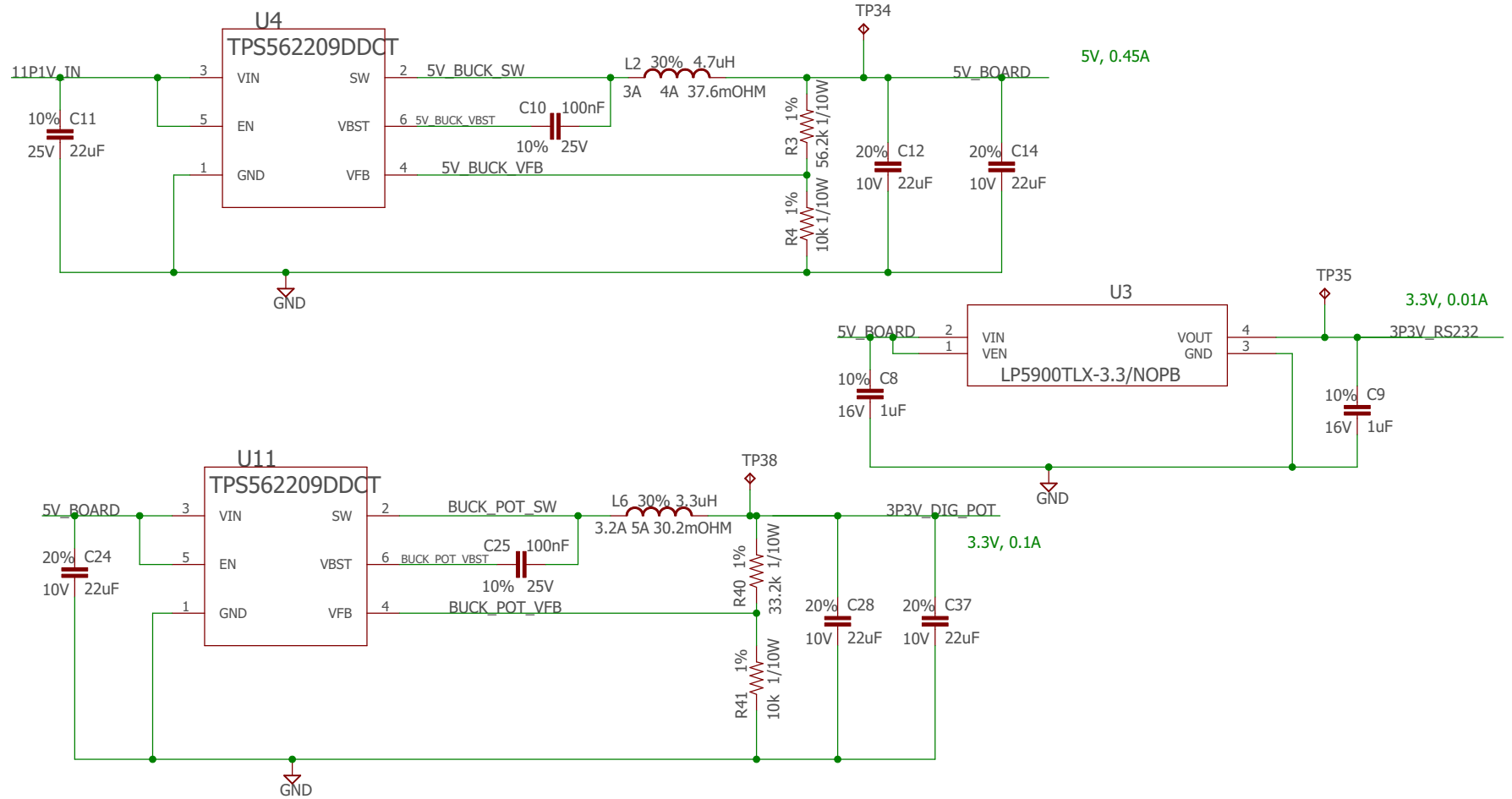
2/1/2017 4:28 PM

Sheet: 4/11

# COMMS 11.1V Battery Power Management



# COMMS 11.1V Battery Power Management



[illegible]

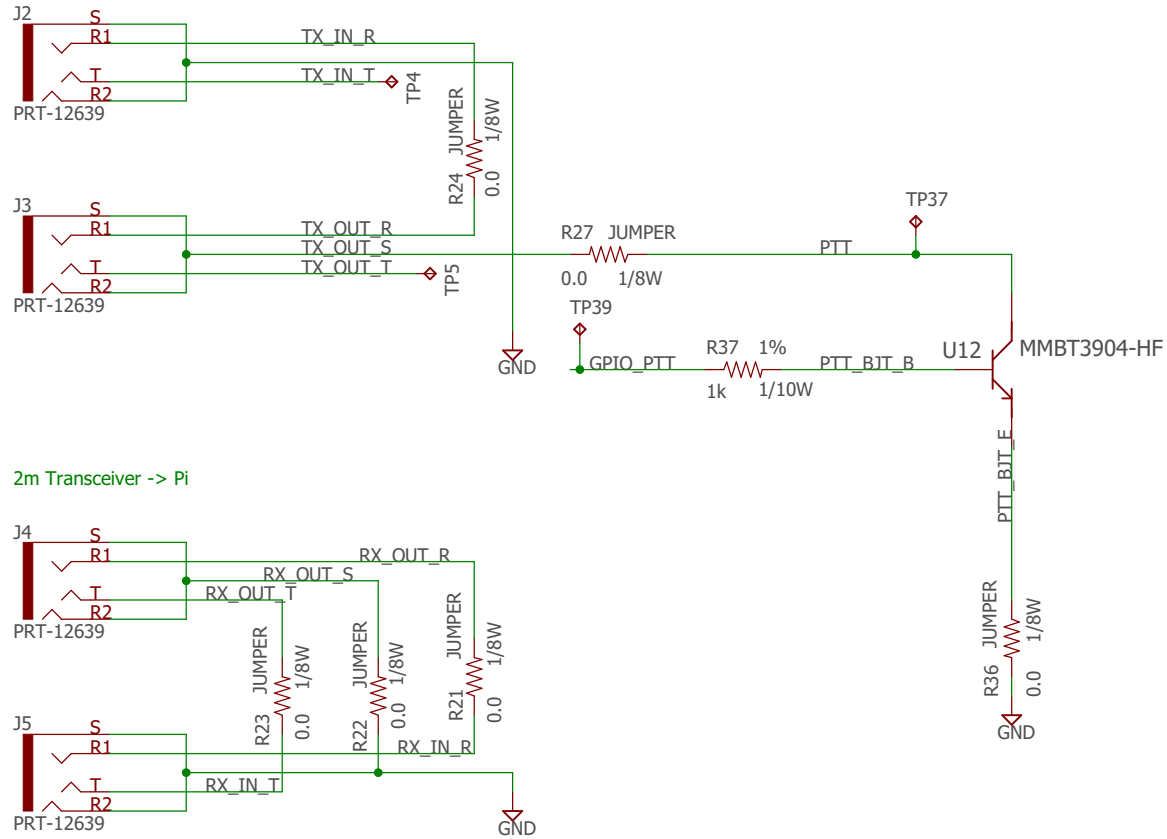
Sheet: 7/11

# COMMS 2m Transceiver Audio Jumpers

Pi -> 2m Transceiver

Pi

2m Transceiver



Transceiver Audio Jumpers

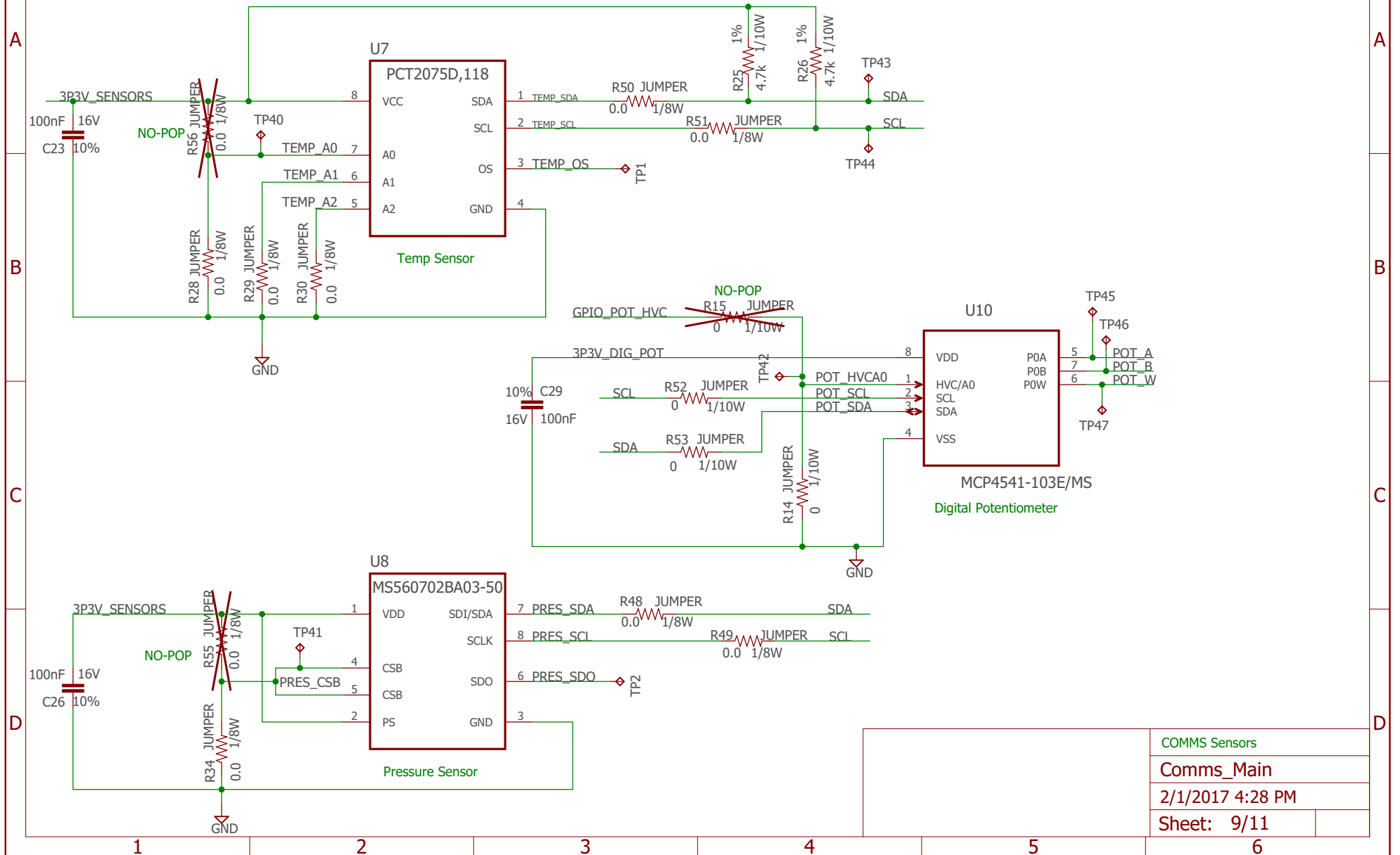
Comms\_Main

2/1/2017 4:28 PM

Sheet: 8/11



# COMMS Sensors



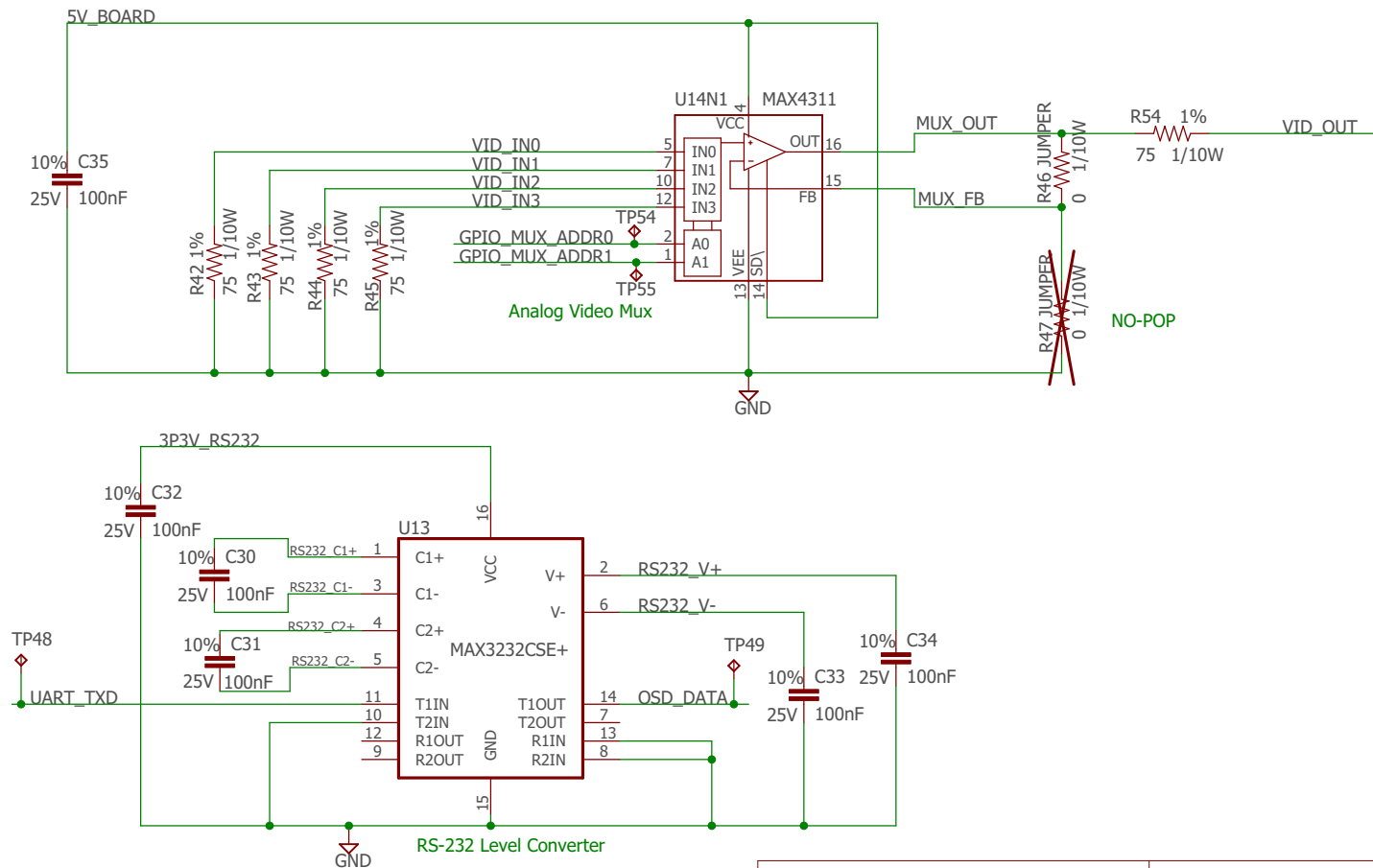
COMMS Sensors

Comms\_Main

2/1/2017 4:28 PM

Sheet: 9/11

# COMMS Video



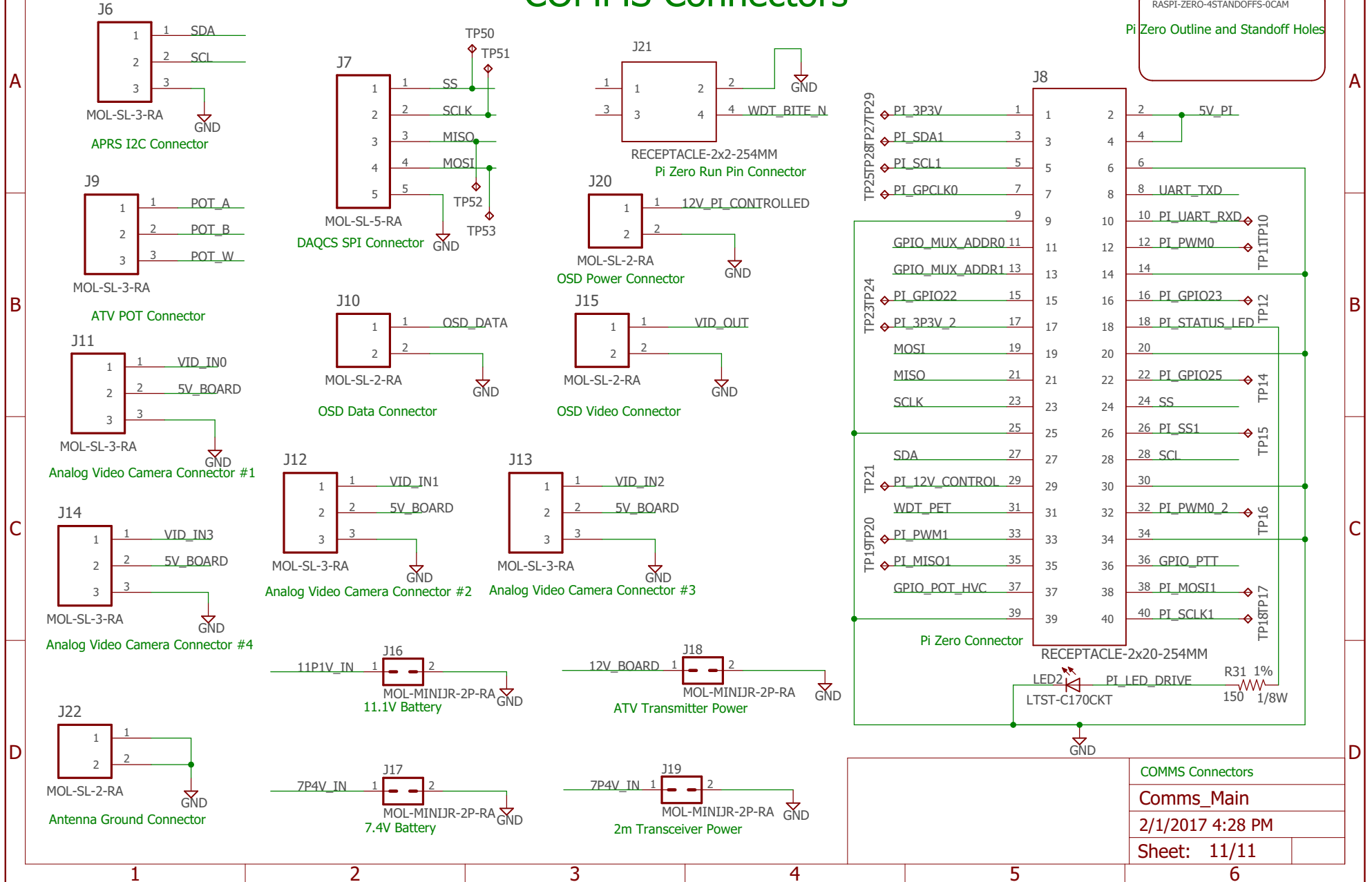
COMMS Video
Comms_Main
2/1/2017 4:28 PM
Sheet: 10/11

# COMMS Connectors

OUTLINE1

RASPI-ZERO-4STANDOFFS-0CAM

Pi Zero Outline and Standoff Holes



COMMS Connectors

Comms\_Main

2/1/2017 4:28 PM

Sheet: 11/11