RASPBERRY PI ZERO POWER SENSOR HAT

TABLE OF CONTENTS

SHEET	SHEET NAME
1	TITLE_TOC
2	BLOCK_DIAGRAM
3	LIPO_CHARGER_AND_BCM_RESET
4	POWER_ENTRY_BOOST_LDO
5	SENSORS
6	PI_MCU_CONNECT_AND_MOUNTING
7	ASSEMBLY_COMPONENTS
8	
9	
10	

DESIGN: 001-001-01

TEAM: P17105

ENGINEER: CHRIS SCHWAB

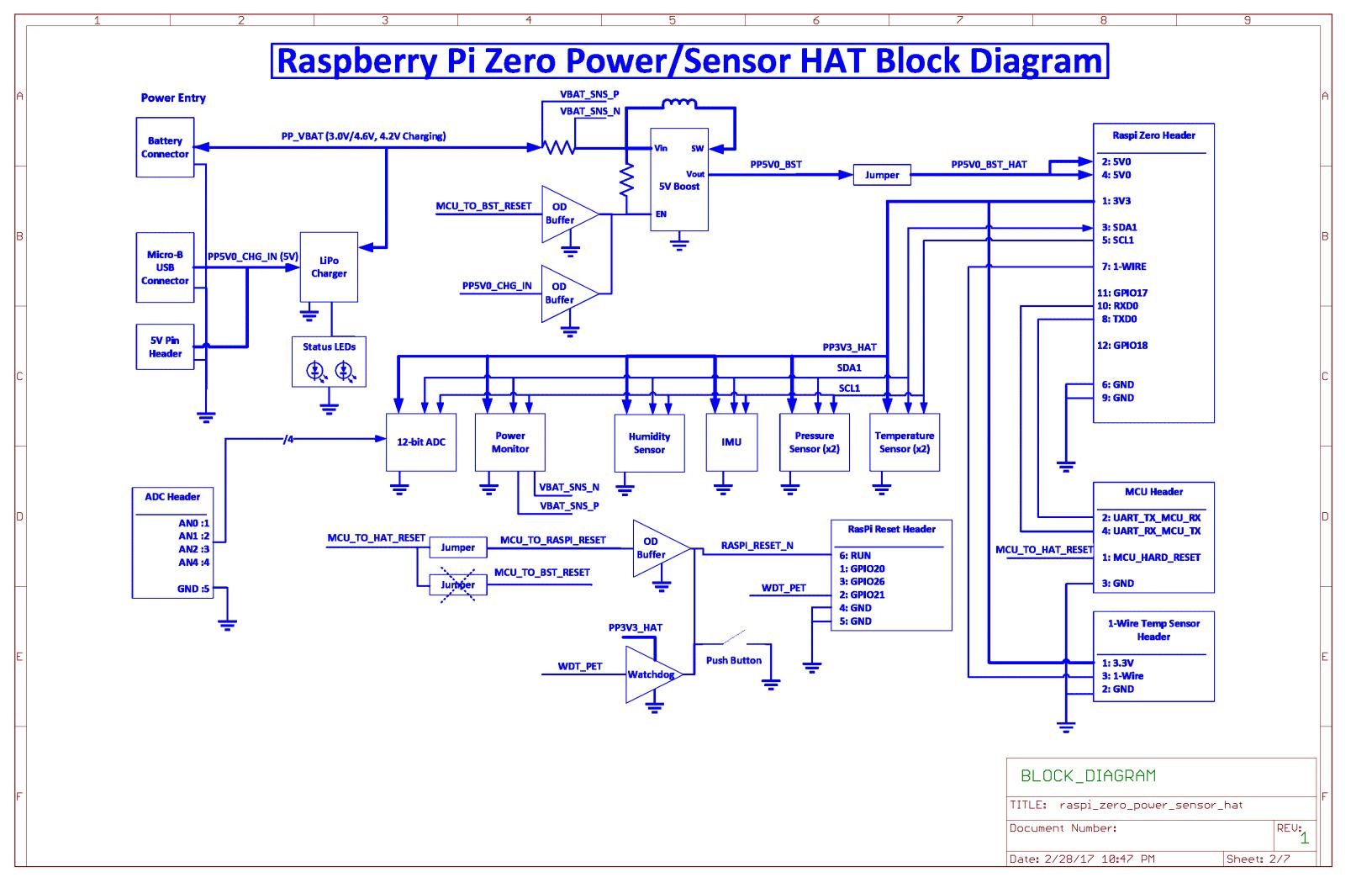
TITLE_TOC

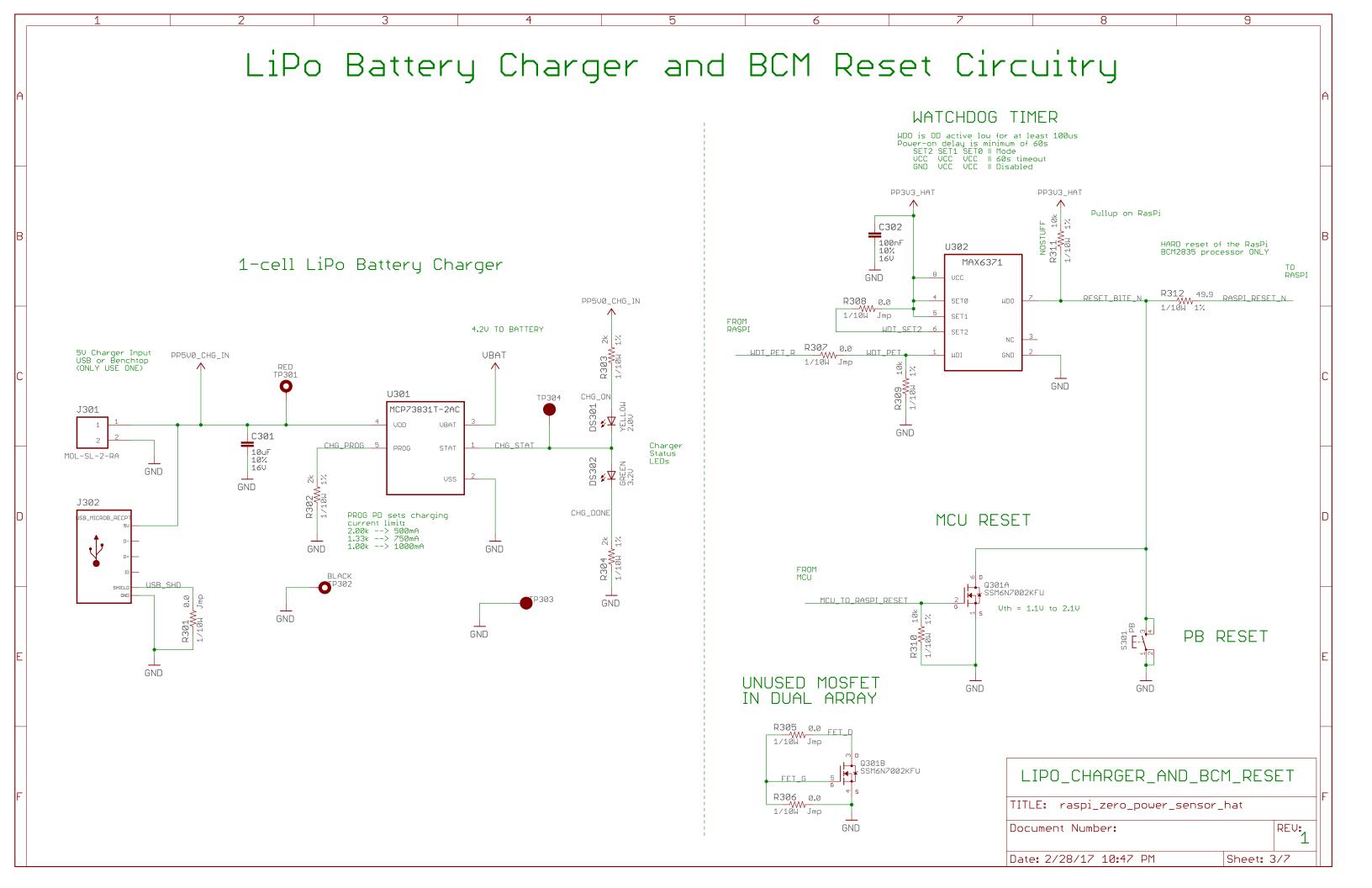
TITLE: raspi_zero_power_sensor_hat

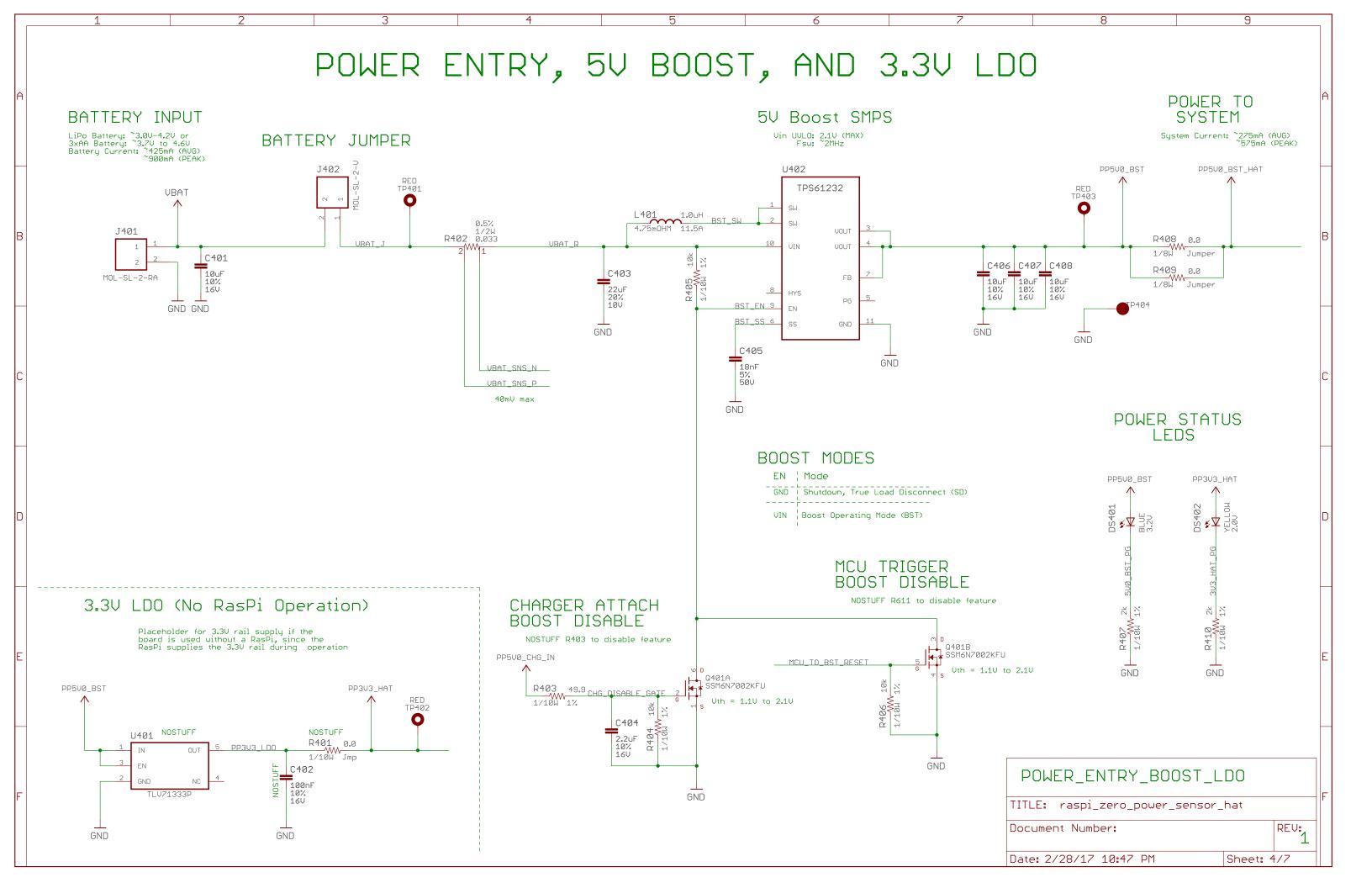
Document Number:

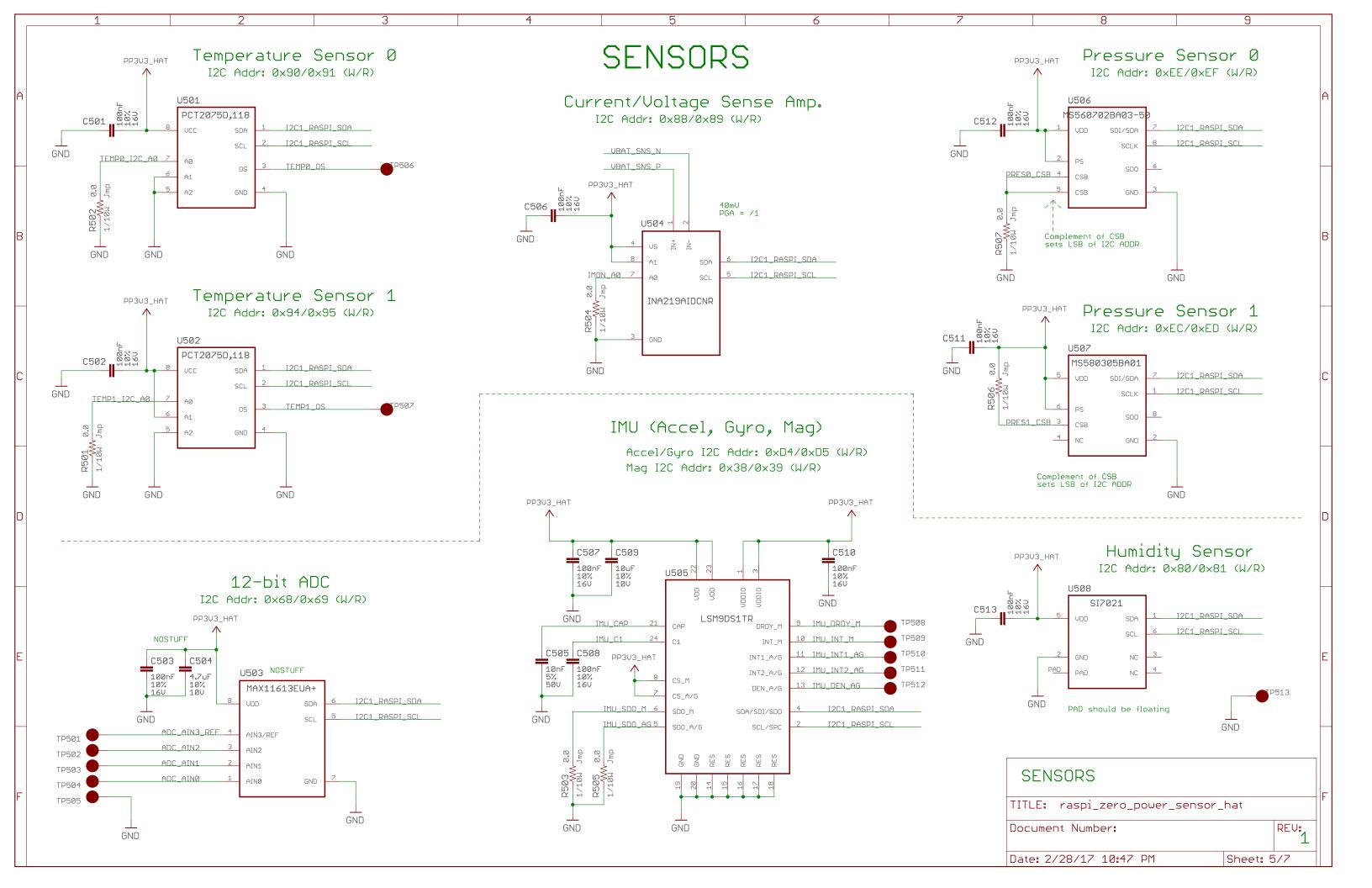
REV:
1

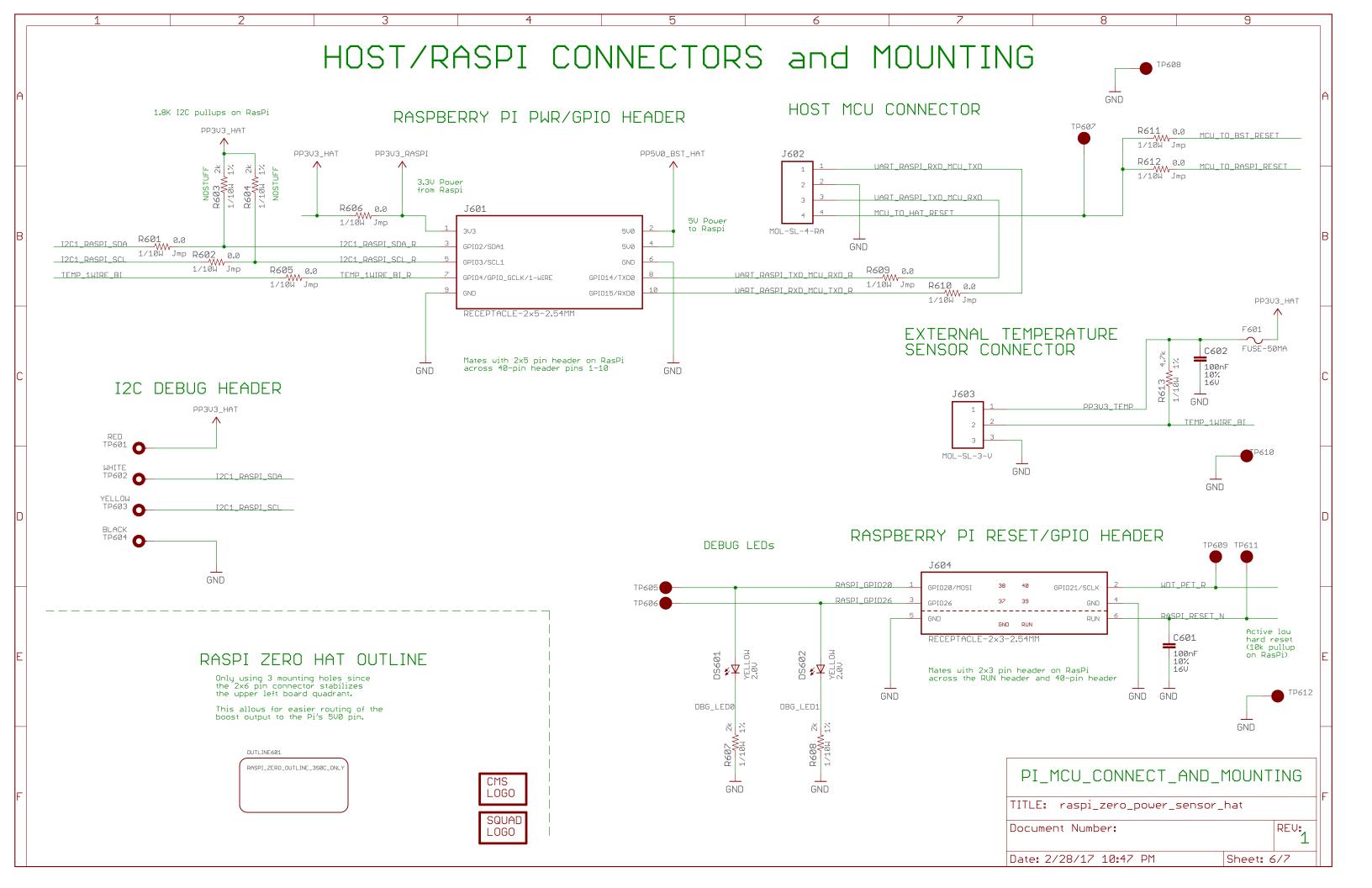
Date: 2/28/17 10:47 PM Sheet: 1/7











CONNECTOR ASSEMBLY and EXTERNAL SENSORS

J301: 5V Charger Input

3x 12mm Nylon Standoffs (Top Righ, Bottom Right, Bottom Left) Not listed on BOM, enough for 6 HATs (Amazon: B01HBYDH70)

BOM701	SL	70066	2PIN	HOUSING	Digi-key	WM2900-ND
B0M702	SL	70058	GOLD	CRIMP	Digi-keu	WM2512CT-ND
BOMZ03	SL	70058	GOLD	CRIMP	Digi-keu	WM2512CT-ND

J401: 1-cell Li-Ion Battery Input

B0M704	SL	70066	2PIN	HOUSING	Diai-keu	WM2900-ND
B0M705	SL	70058	GOLD	CRIMP	Digi-keu	WM2512CT-ND
B0MZ06	SL	70058	GOLD	CRIMP	Digi-keu	WM2512CT-ND

2500mAh/2000mAh 3.7V Battery ordered from Adafruit (Part Number: 328/2011)

J402: Battery Jumper

B0M707	SL	70066	2PIN	HOUSING	Diai-keu	WM2900-ND
B0M708	SL	70058	GOLD	CRIMP	Digi-keu	WM2512CT-ND
B0M709	SL	70058	GOLD	CRIMP	Digi-keu	WM2512CT-ND

J601: RasPi Power/GPIO Header

BOM710 HEADER-RECT-MALE-2X5 Digi-key 952-2380-ND

J602: MCU IO

				HOUSING	Digi-key	WM2902-ND
BOM712					Digi-keu	WM2512CT-ND
B0M713	SL	70058	GOLD	CRIMP	Digi-keu	WM2512CT-ND
BOM714	SL	70058	GOLD	CRIMP	Digi-keu	WM2512CT-ND
B0M715	SL	70058	GOLD	CRIMP	Diai-keu	WM2512CT-ND

J603: 1-Wire Temperature Sensor

B0M716	SL 70066 3PIN HOUSING	Digi-keu	WM2901-ND
BOM717	SL 70058 GOLD CRIMP	Digi-keu	WM2512CT-ND
	SL 70058 GOLD CRIMP	Digi-keu	WM2512CT-ND
	SL 70058 GOLD CRIMP	Digi-keu	WM2512CT-ND
	1-Wire Temperature Sensor	Digi-keu	DS18B20+-ND
B0M721	1-Wire Temperature Sensor	Digi-keu	DS18B20+-ND

J604: RasPi Reset/GPIO Header

BOM722 HEADER-RECT-MALE-2X3 Digi-key 952-2120-ND

ASSEMBLY_COMPONENTS

TITLE: raspi_zero_power_sensor_hat

Document Number:

Date: 2/28/17 10:47 PM Sheet: 7/7

REV:1