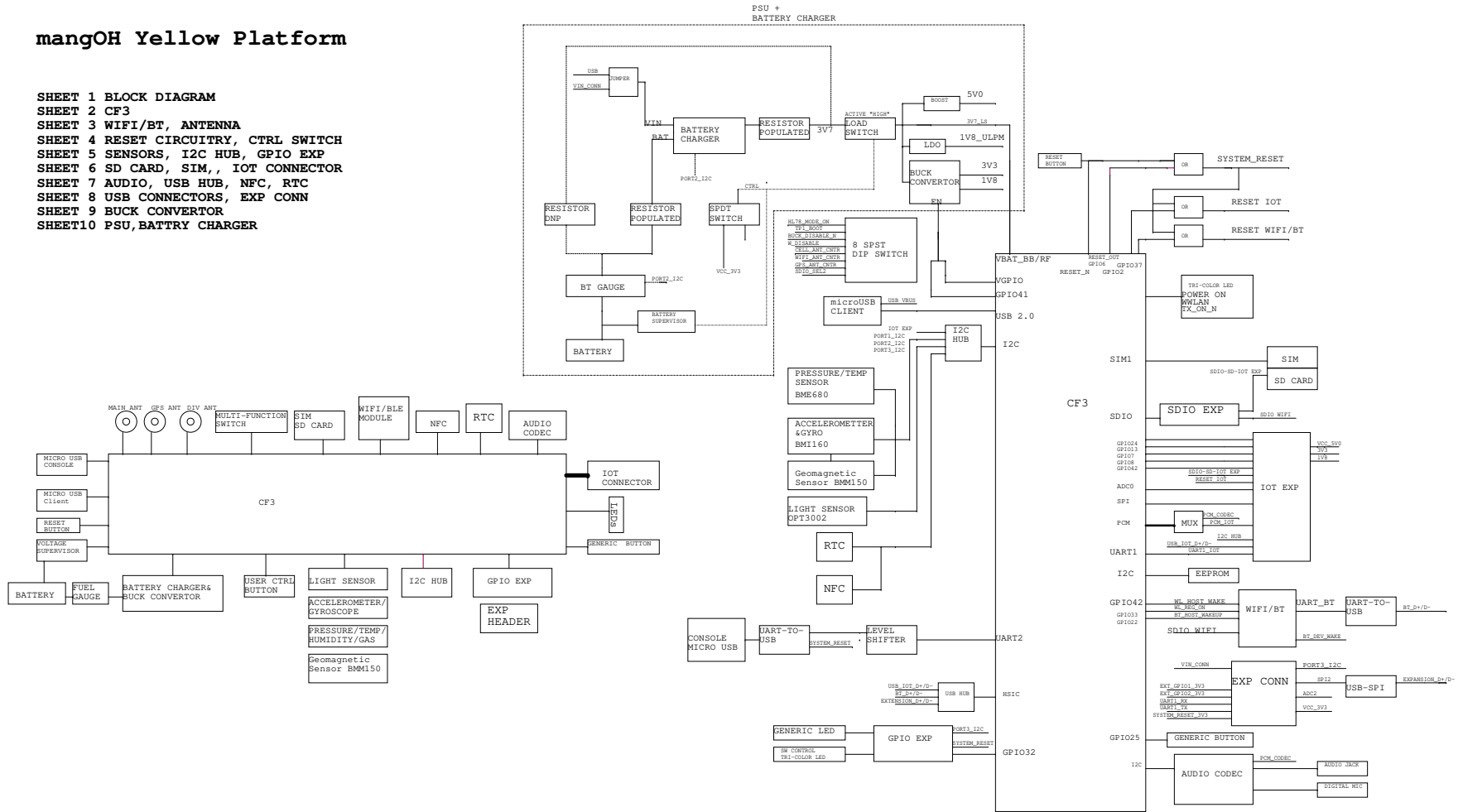


mangOH Yellow Platform

- SHEET 1 BLOCK DIAGRAM
- SHEET 2 CF3
- SHEET 3 WIFI/BT, ANTENNA
- SHEET 4 RESET CIRCUITRY, CTRL SWITCH
- SHEET 5 SENSORS, I2C HUB, GPIO EXP
- SHEET 6 SD CARD, SIM,, IOT CONNECTOR
- SHEET 7 AUDIO, USB HUB, NFC, RTC
- SHEET 8 USB CONNECTORS, EXP CONN
- SHEET 9 BUCK CONVERTOR
- SHEET10 PSU, BATTERY CHARGER



I2C ADDRESS LIST


- U200 EEPROM: 0x50
- U508 ACCE/GYRO: 0x18/68
- U507 BME680: 0x76
- U502 BMM150: 0x10/0x11
- U503 IO EXP: 0x3E
- U506 OPT3002: 0x44
- U505 TCA9546: 0x71 (same as 'red')
- U700 NT3H2211: 0x55 (default - can be changed)
- U701 PCF85063: 0x51
- U1000 BQ25601: 0x6B
- U1002 BQ27426: 0x55
- U703 USB3503A: 08h

PN	Description	REVISION
5303064	PCB, MANGO YELLOW	11
5303066	PCA, MANGO YELLOW	5
2142586	SCHEMATIC, MANGO YELLOW	21

<Variant Name>

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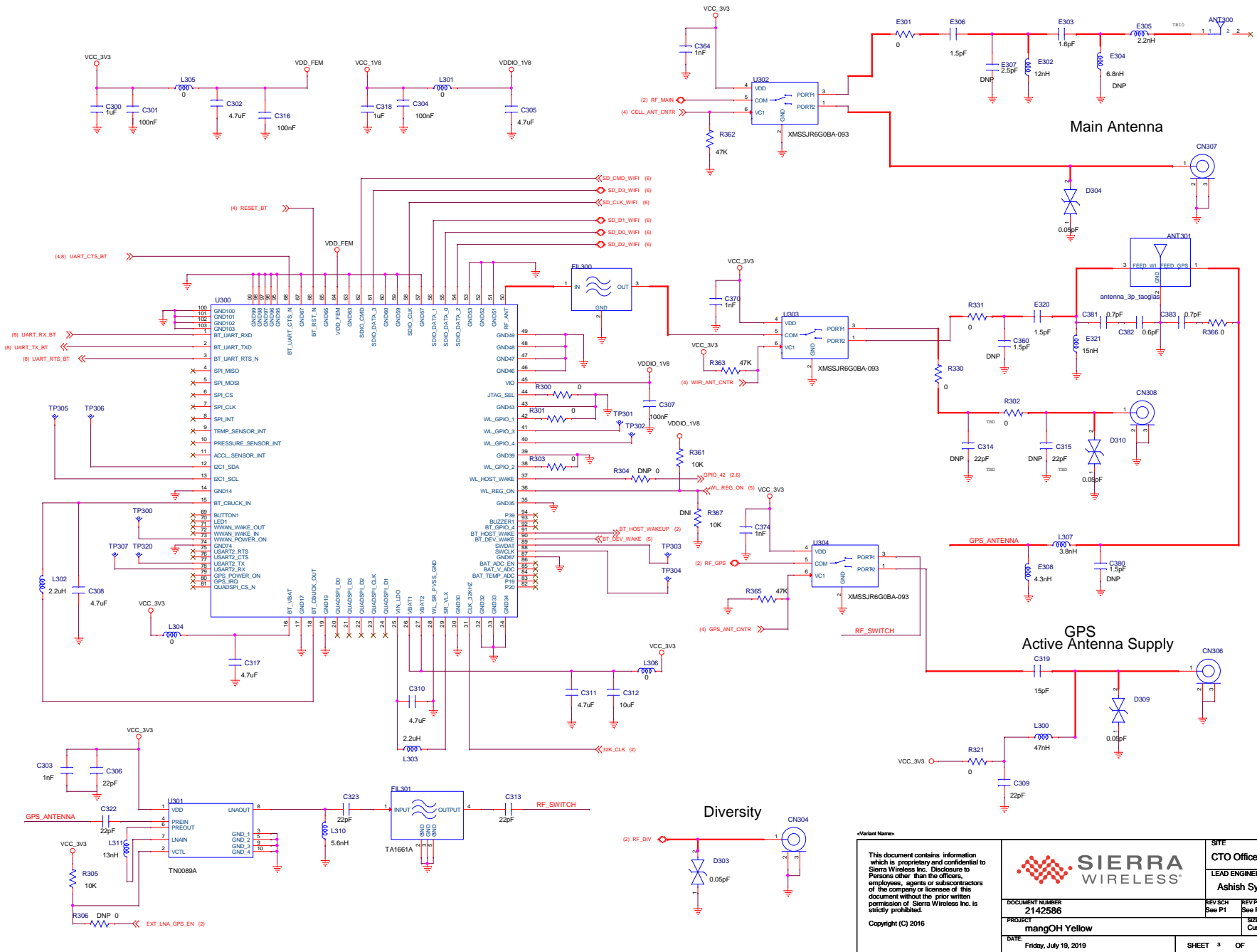
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LEAD ENGINEER
Ashish Syal

DOCUMENT NUMBER 2142586	REV/SCH 21	REV/POS 11
PROJECT mangOH Yellow	SIZE Custom	
DATE Friday, July 26, 2019	SHEET 1	OF 10

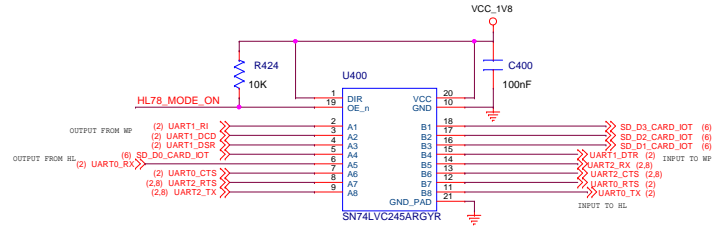
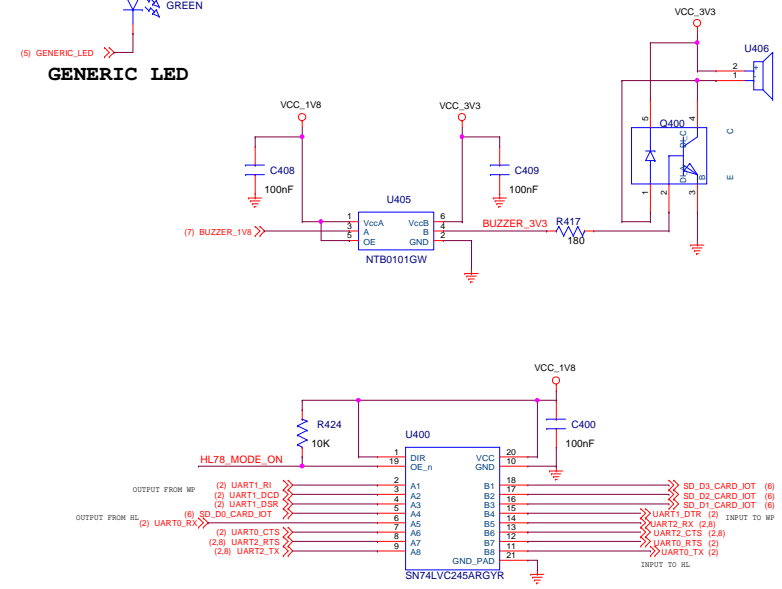
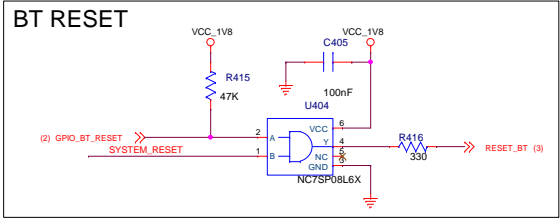
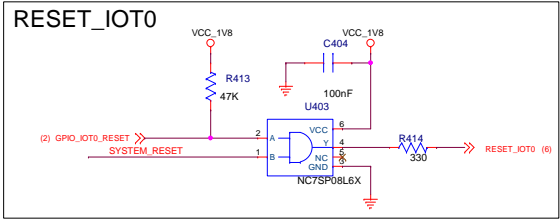
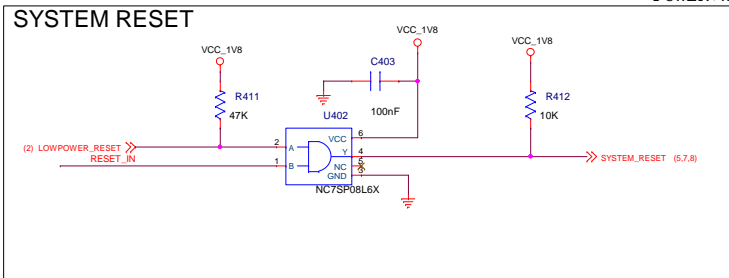
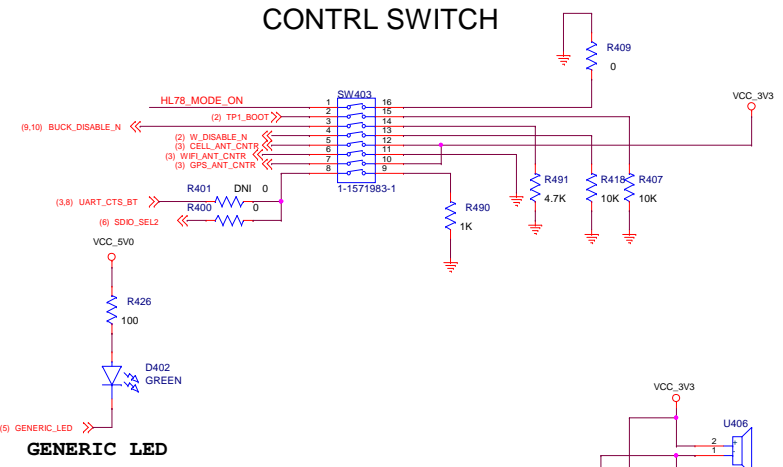
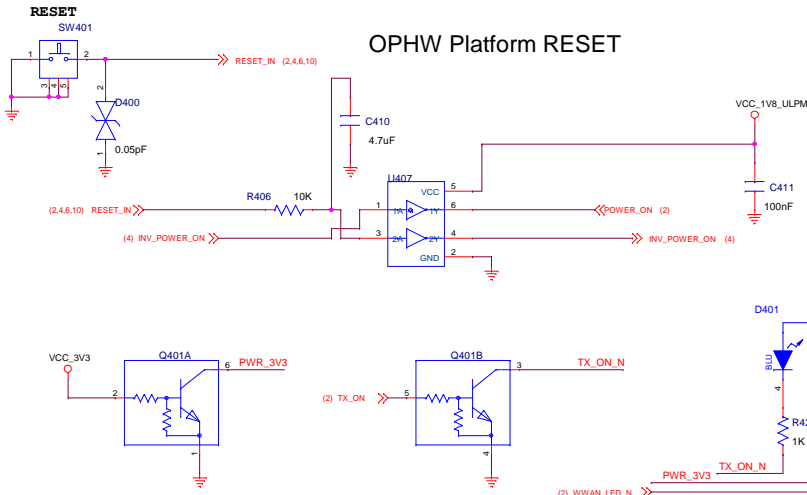


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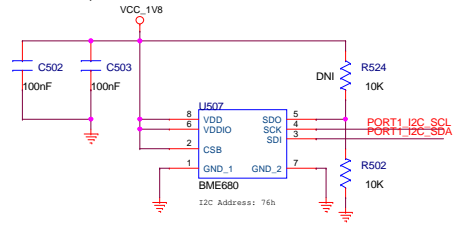
DOCUMENT NUMBER 2142586	REV SCH See P1	REV PCB See P1
PROJECT mangOH Yellow	SHEET 3 OF 10	

SITE CTO Office
LEAD ENGINEER Ashish Syal
DATE Friday, July 19, 2016

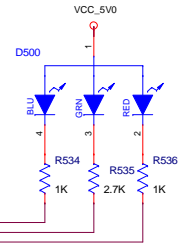
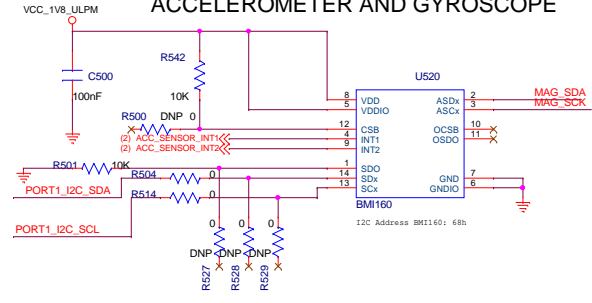


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DOCUMENT NUMBER	2142586	REV SCH	See P1
PROJECT	mangOH Yellow	REV PCB	See P1
DATE	Friday, July 19, 2019	SIZE	C
		SHEET	4 OF 10

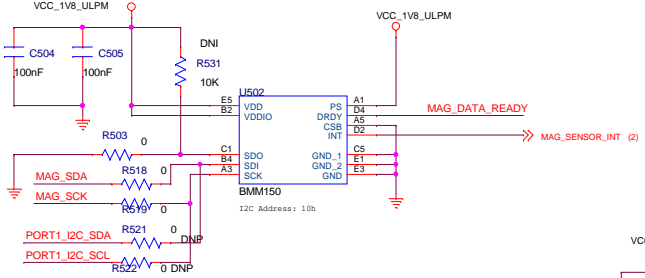
GAS, HUMIDITY AND PRESSURE SENSOR



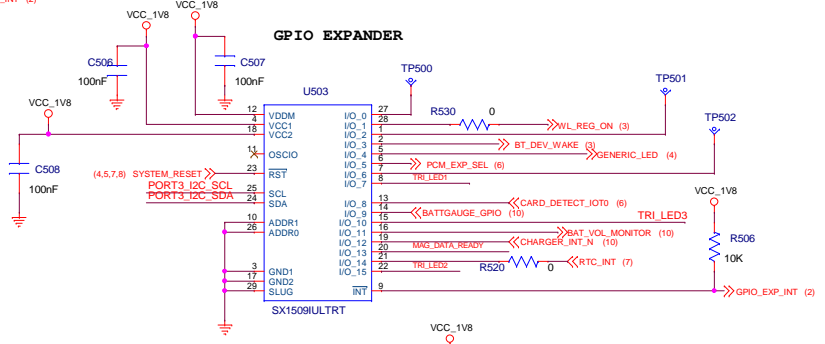
ACCELEROMETER AND GYROSCOPE



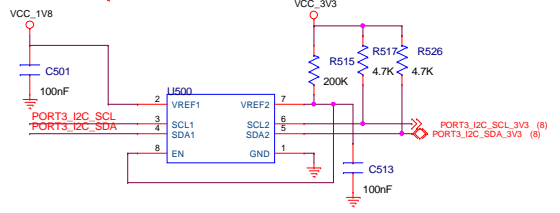
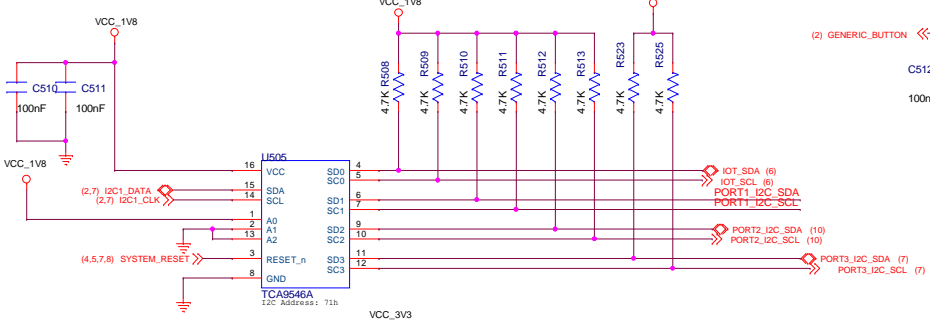
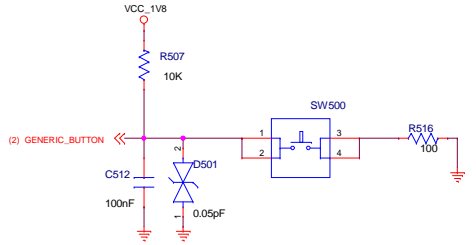
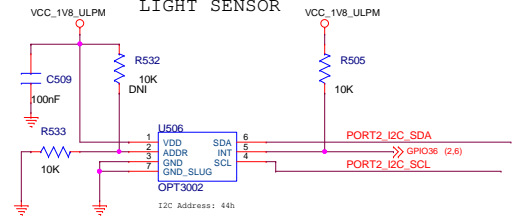
GEOMAGNETIC SENSOR



GPIO EXPANDER



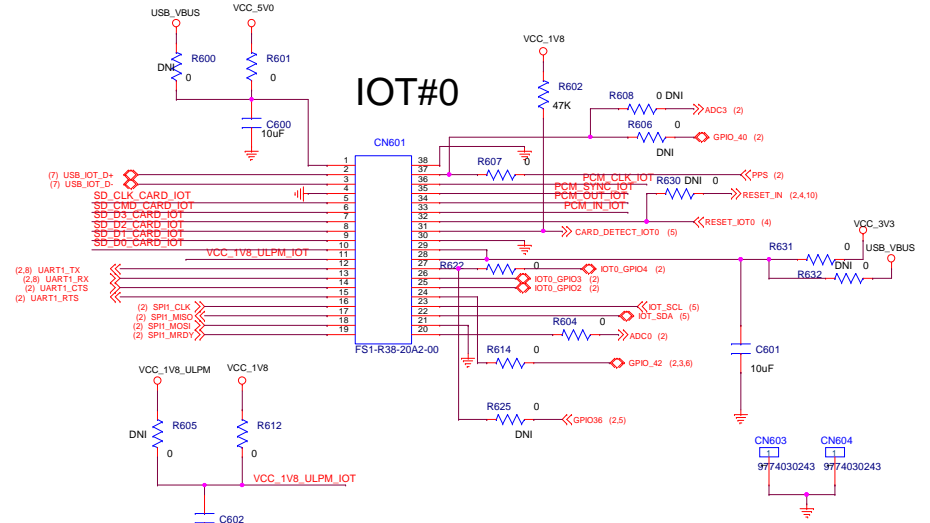
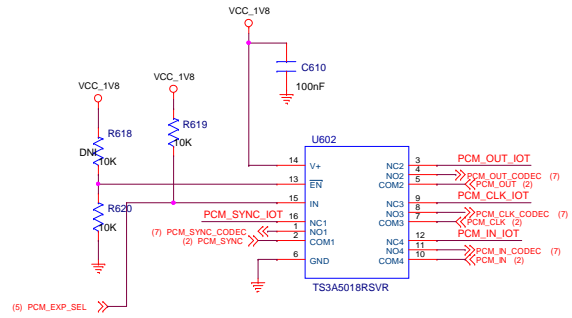
LIGHT SENSOR



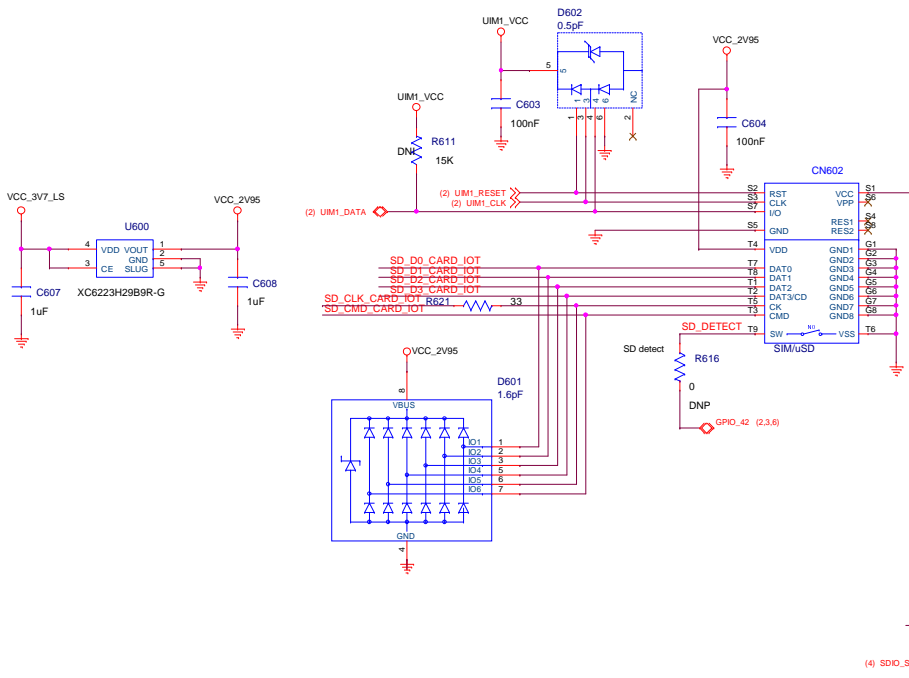
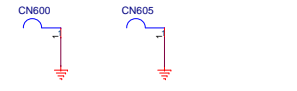
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DOCUMENT NUMBER 2142586		LEAD ENGINEER	
		Ashish Syal	
PROJECT		REV SCH	REV PCB
mangOH Yellow		See P1	See P1
DATE:		SIZE	
Friday, July 19, 2019		Custom	
		SHEET	OF
		5	10

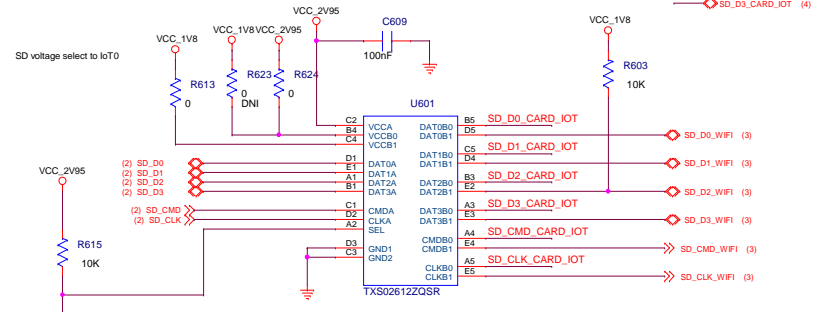
SD CONNECTOR



Mounting Holes for the IOT Connector



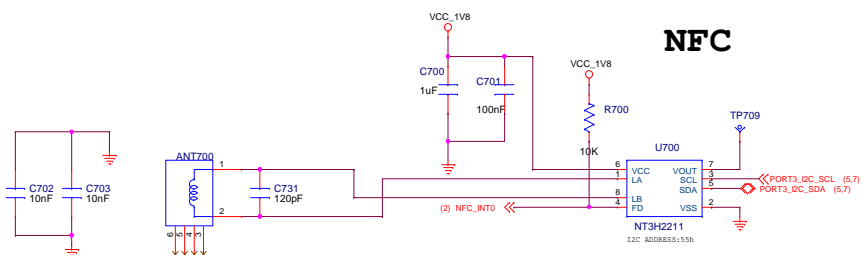
SDIO Expansion



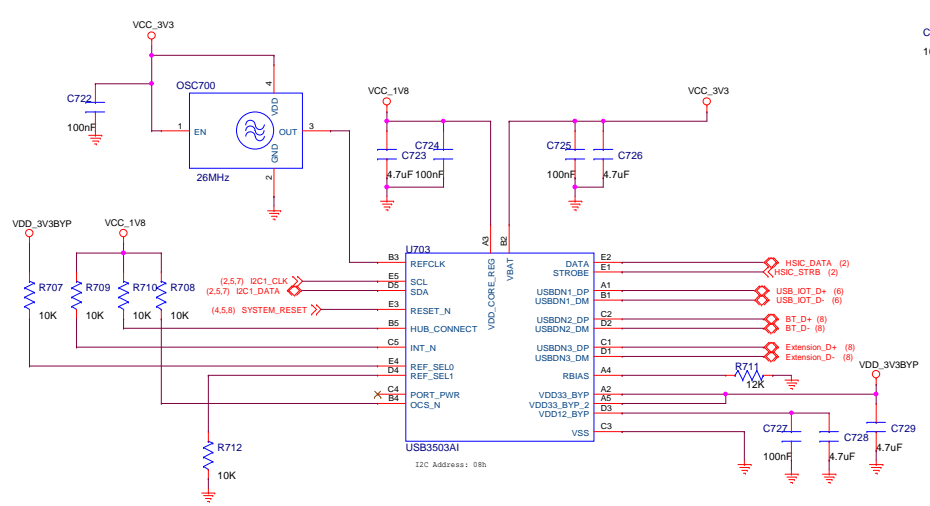
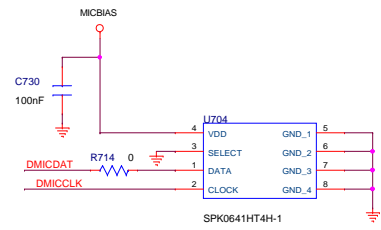
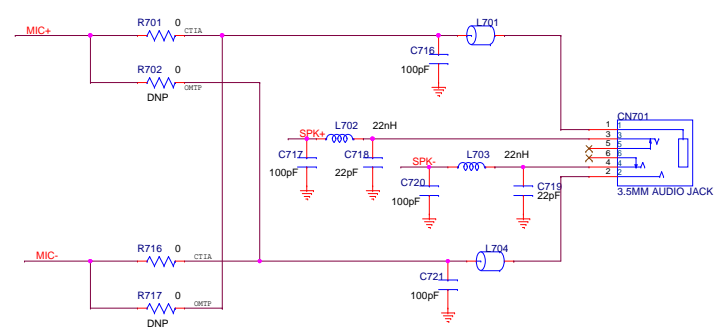
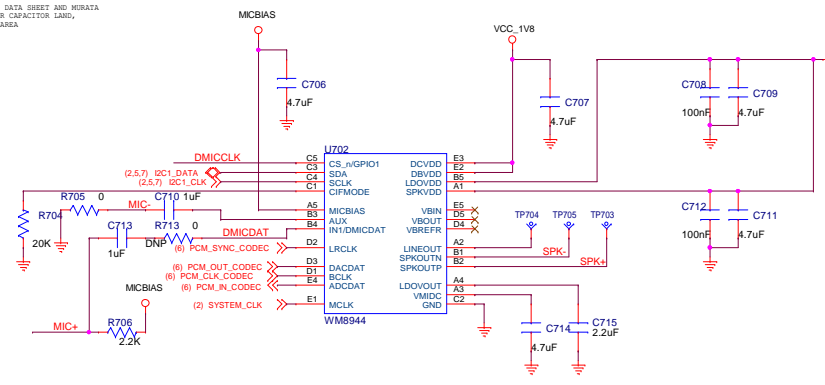
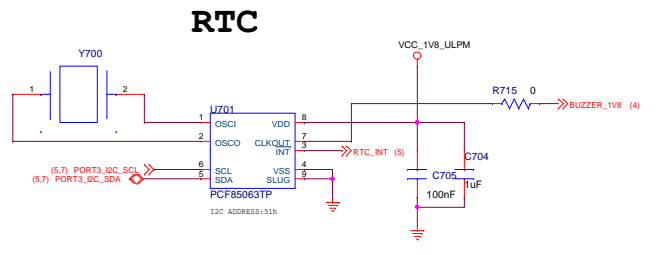
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DOCUMENT NUMBER 2142586		LEAD ENGINEER	
		Ashish Syal	
PROJECT	mangOH Yellow	REV SCH	REV PCB
DATE	Friday, July 19, 2019	See P1	See P1
		SIZE	C
		SHEET	6 OF 10

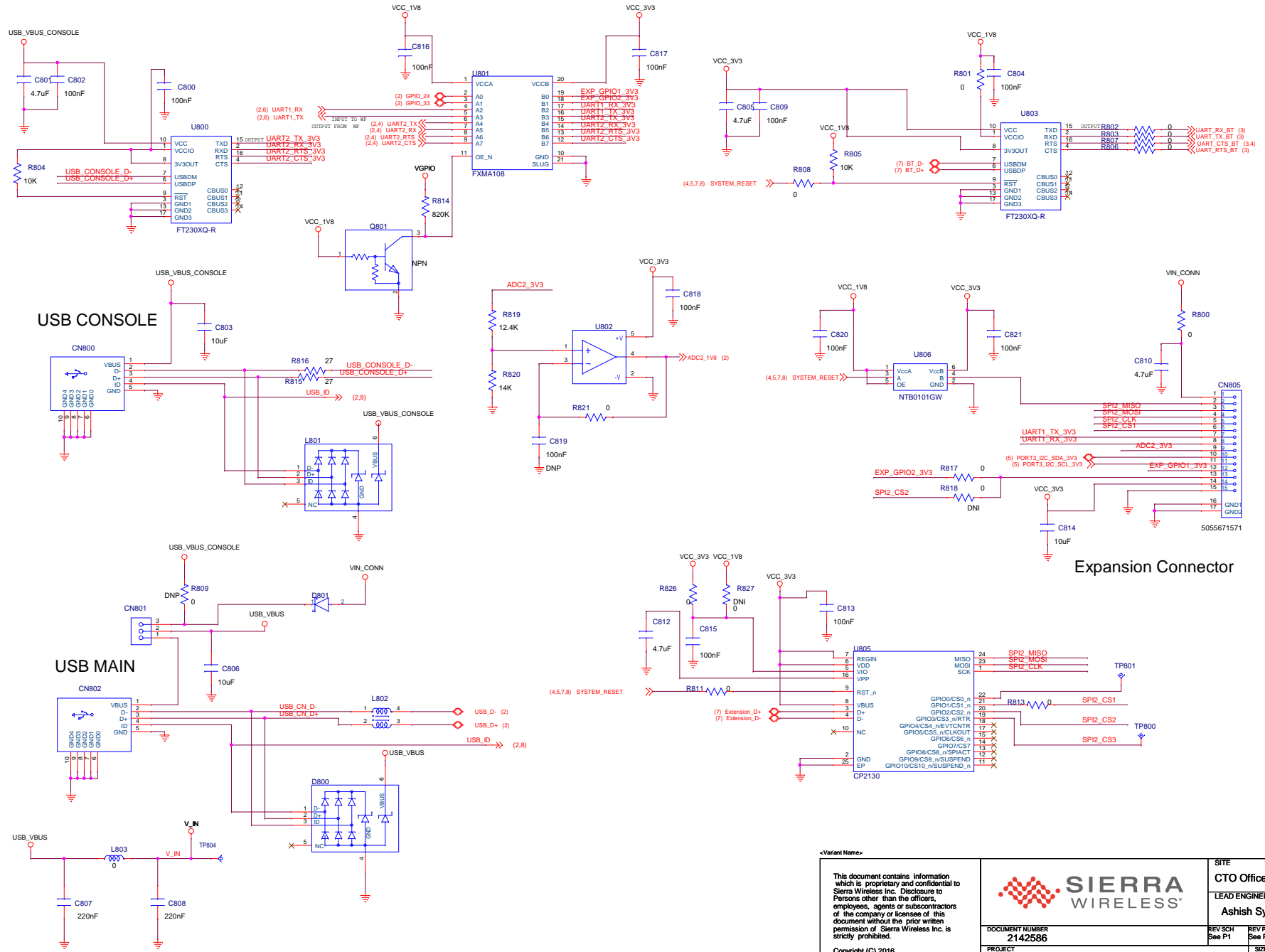


NOTE: REFER TO THE DATA SHEET AND MURATA RECOMMENDATIONS FOR CAPACITOR LAND, MOUNTING AND SLIT AREA



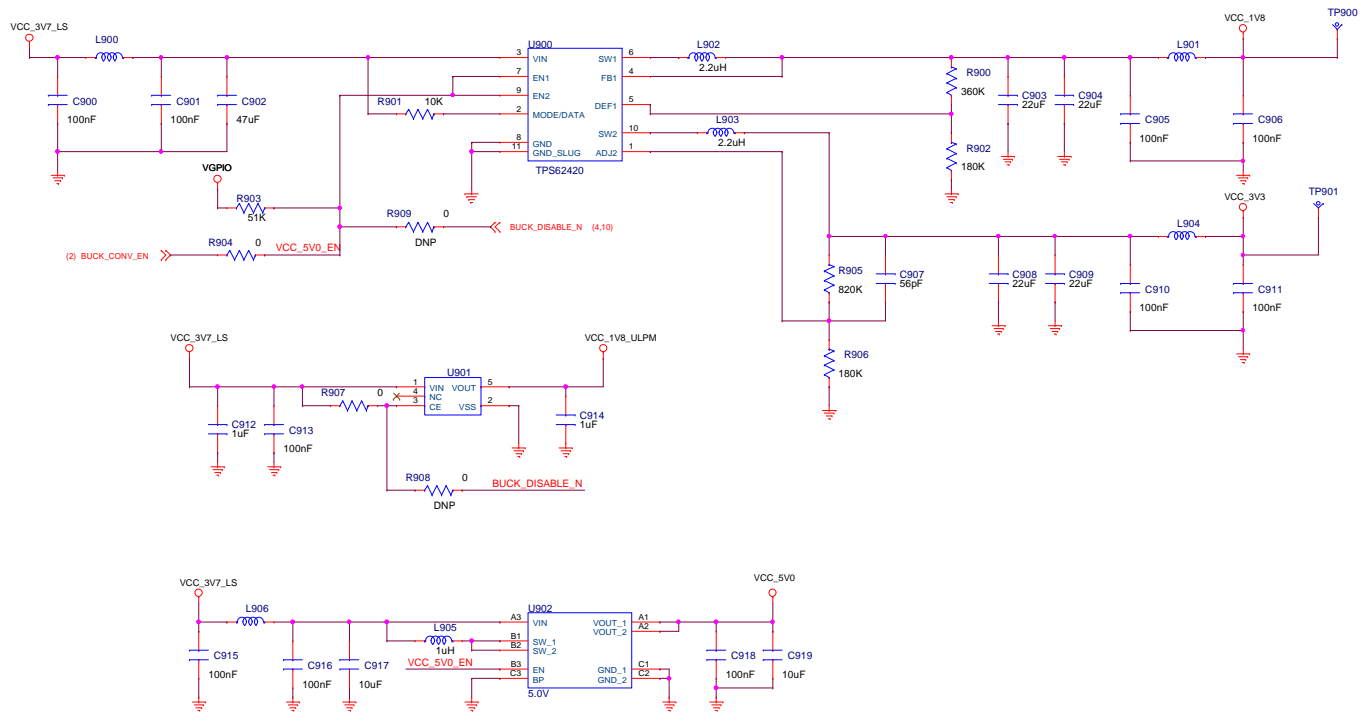
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		CTO Office	
DOCUMENT NUMBER 2142586		REV SCH	REV PCB
		See P1	See P1
PROJECT		SIZE	
mangOH Yellow		C	
DATE		SHEET	
Friday, July 19, 2019		7	OF 10



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<p>DOCUMENT NUMBER</p> <p>2142586</p>		<p>REV SCH</p> <p>See P1</p>		<p>REV PCB</p> <p>See P1</p>	
<p>PROJECT</p> <p>mangOH Yellow</p>		<p>DATE</p> <p>Friday, July 19, 2019</p>		<p>SIZE</p> <p>C</p>	
<p>SHEET 8 OF 10</p>				<p>5055671571</p>	

3V3 and 1V8 Buck



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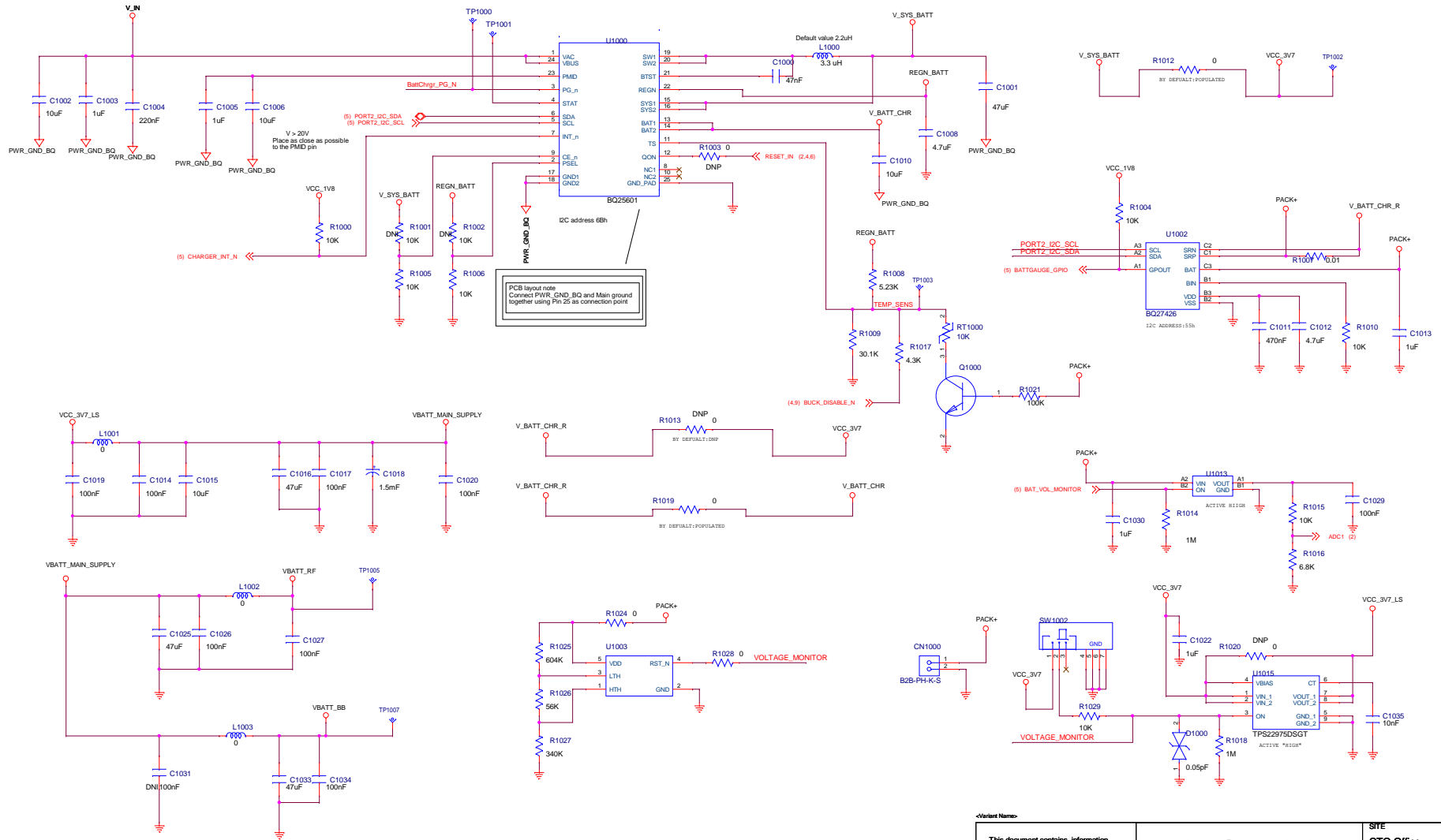


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Ashish Syal

DOCUMENT NUMBER 2142586	REV SCH See P1	REV PCB See P1
PROJECT mangOH Yellow	SIZE C	
DATE Friday, July 19, 2019	SHEET 9 OF 10	

PSU Front End and 3.7V DC/DC converter

Note:
* For High Reliability systems use the WD feature of BO25601



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		<p>DOCUMENT NUMBER 2142586</p> <p>PROJECT mangOH Yellow</p> <p>DATE Friday, July 19, 2016</p>		<p>LEAD ENGINEER Ashish Syal</p> <p>REV SCH See P1</p> <p>REV PCB See P1</p> <p>SZ Custom</p>	
				<p>SHEET 10 OF 10</p>	