

A

A

B

B

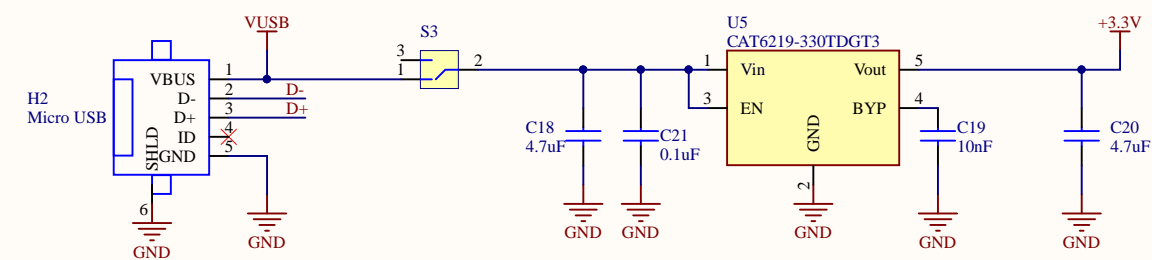
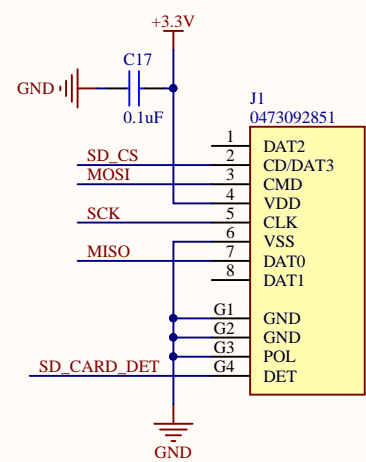
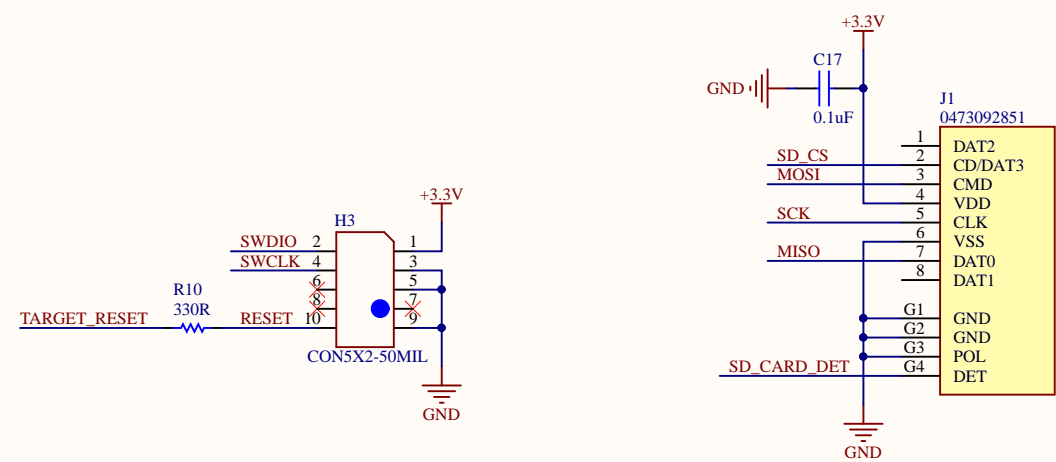
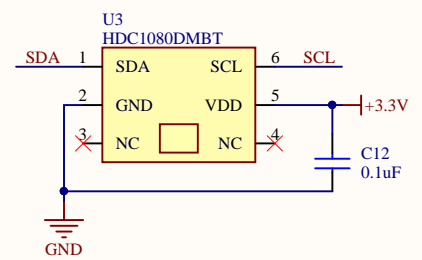
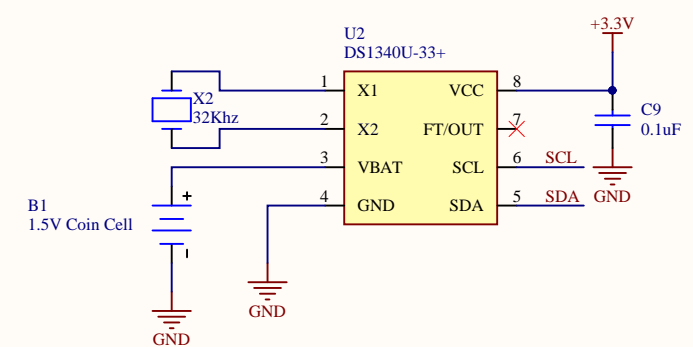
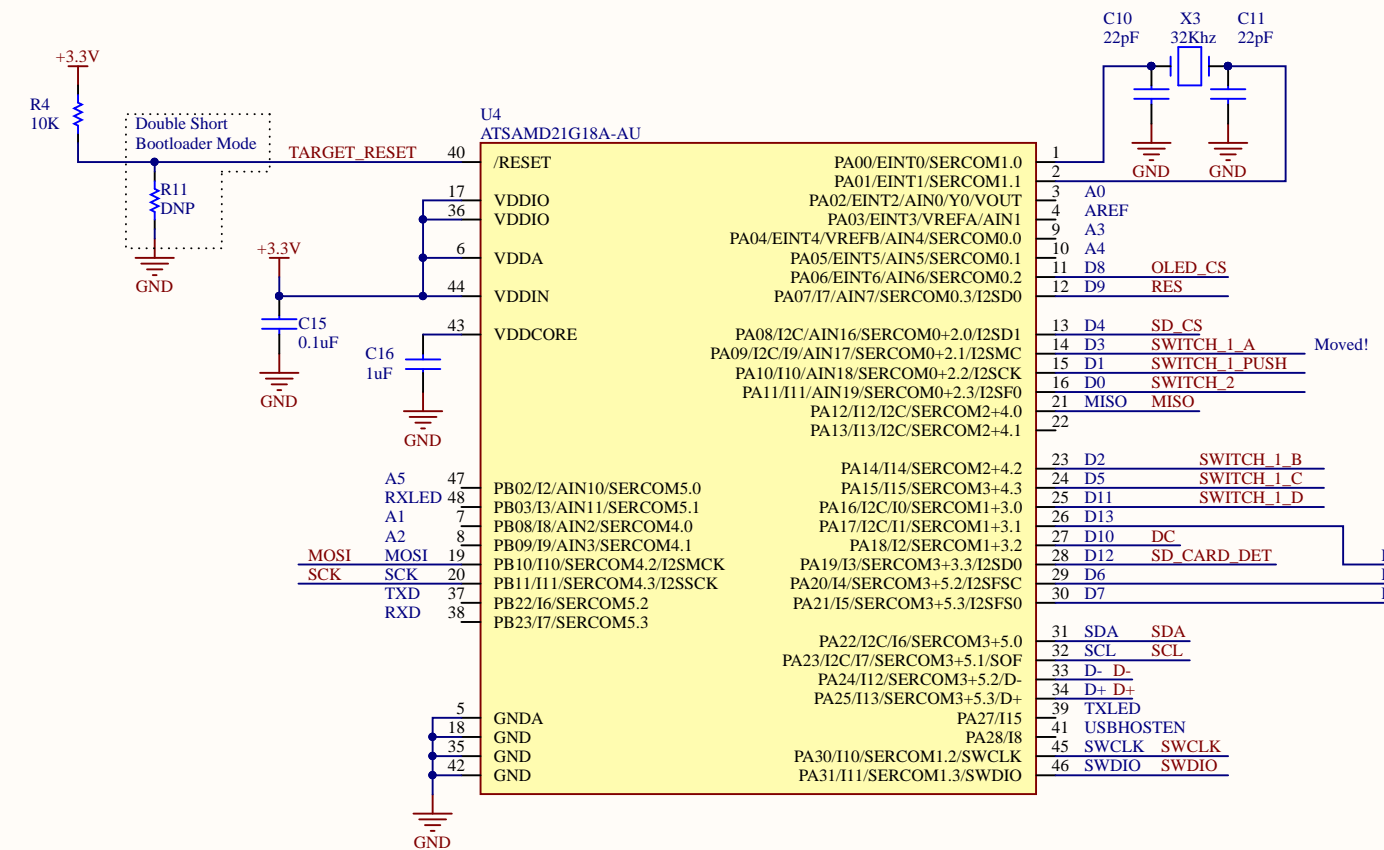
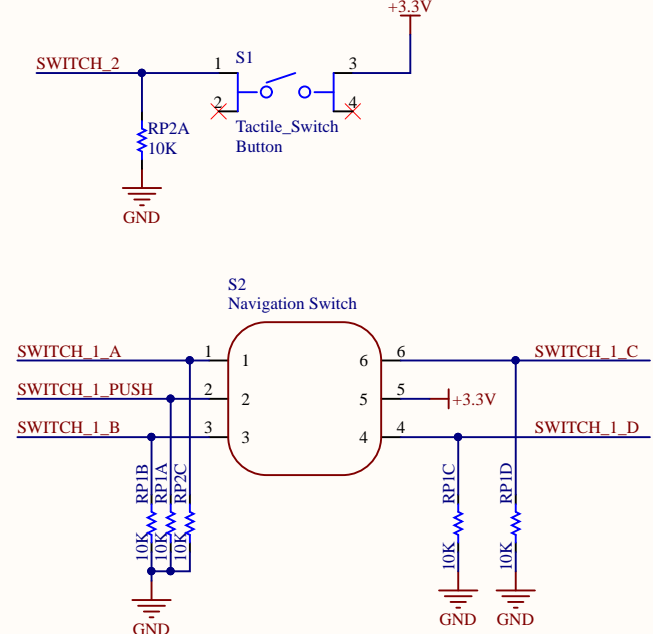
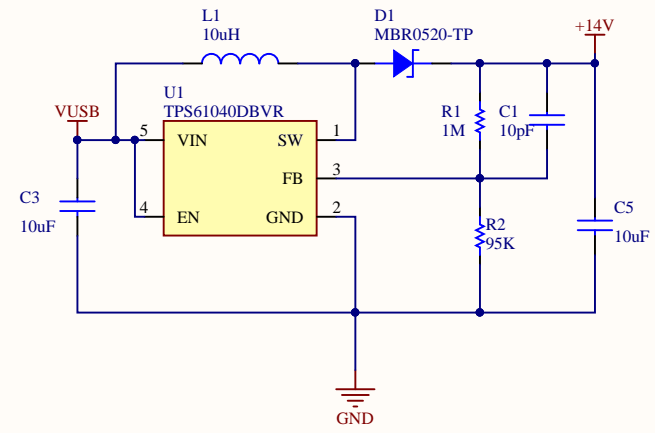
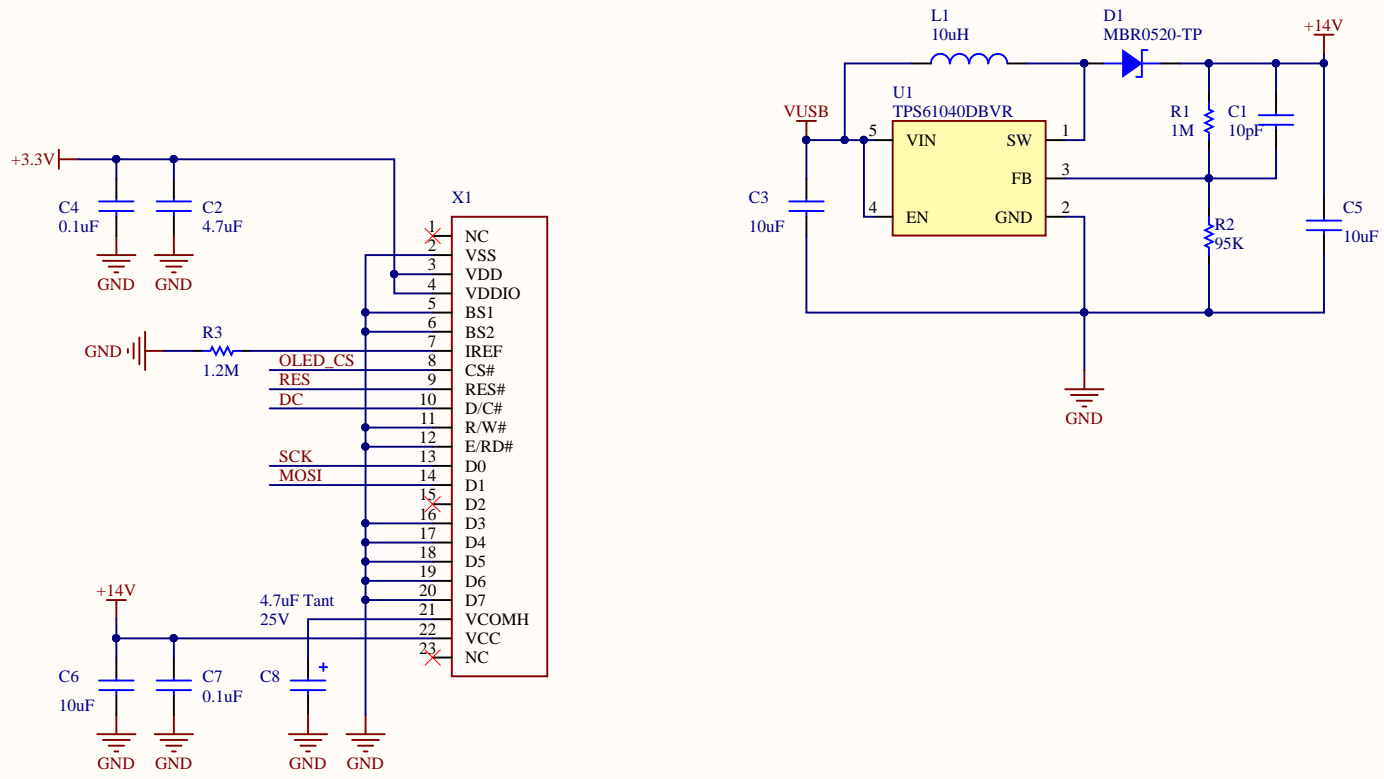
C

C

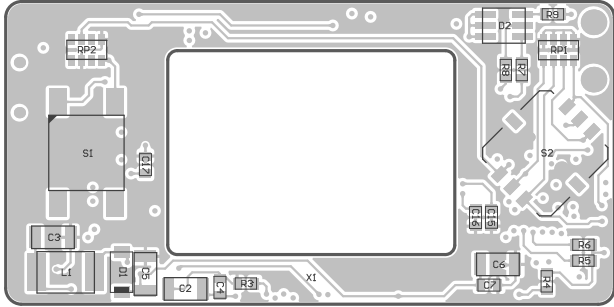
D

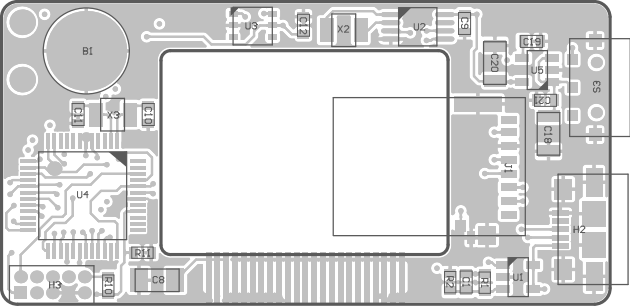
D

- Fix on next Revision
- source more durable on/off power switch
- change RGB Led to smaller type
- push out components for oled glass, reuse window
- find new location for miroSD holder
- somehow hide oled flex on bottom



Title		
Size	Number	Revision
C		
Date:	2017-04-25	Sheet of
File:	C:\Utility\...\Schematic_Rev1.1.SchDoc	Drawn By:





Component list

SAMD21G18A Sensor Board with Color Oled

Source Data From:

Project:

Rev1



Report Date: 2017-04-25 5:59:04 PM
Print Date: 25-Apr-17 5:59:17 PM

#	Designator	Quantity	Vendor	PartNumber	Description	Manufacturer	Comment
1	C1	1	Digi-Key	C0603C100J5GACTU	10pF 50V Ceramic Capacitor C0G	Kemet	10pF
2	C2	1	Digi-Key	CL31B475KOHNFNE	CAP CER 4.7UF 16V 10% X7R 1206	Samsung	4.7uF
3	C3, C5, C6	3	Digi-Key	CL31B106KOHNNNE	CAP CER 10UF 16V 10% X7R 1206	Samsung	10uF
4	C4, C7	2	Digi-Key	GRM188R71C104KA01D	CAP CER 0.1UF 16V 10% X7R 0603	Murata	0.1uF
5	C8	1	Digi-Key	T491A475M025AT	4.7uF Molded Tantalum Capacitors	Kemet	4.7uF Tant
6	C9, C12, C15, C17, C21	5	Digi-Key	GRM188R71E104KA01D	CAP, 0.1uF, 25V, 0603	Murata	0.1uF
7	C10, C11	2	Digi-Key	GRM1885C1H220JA01D	CAP, 22pF, 0603	Murata	22pF
8	C16	1	Digi-Key	GRM188R71E105KA12D	CAP, 1uF, 25V, 0603	Murata	1uF
9	C18, C20	2	Digi-Key	GRM31CR71E475KA88L	CAP, 4.7uF, 25V, 1206	Murata	4.7uF
10	C19	1	Digi-Key	C0603C103K5REC7867	CAP CER 0603 10NF 50V X7R 10%	Kemet	10nF
11	D1	1	Digikey	MBR0520-TP	DIODE SCHOTTKY 20V 500MA SOD123	Micro	MBR0520-TP
12	D2	1	Digi-Key	ASMT-YTB7-0AA02	LED,RGB,20mA,6SMD,RoHS	BROADCOM	RGB
13	H2	1	Digi-Key	1981584-1	CONN RCPT MICRO USB TYPE AB	TE Connectivity	Micro USB
14	J1	1	Digi-Key	0473092851	9 (8 + 1) microSD SMT, Right Angle	Molex	0473092851
15	L1	1	Digikey	LQH43CN100K03L	INDUCTOR 10UH 10% 650MA 1812	Murata	LQH43CN100K03L
16	R1	1	Digi-Key	ERJ-3EKF1004V	RES SMD 1M OHM 1% 1/10W 0603	Panasonic	1M
17	R2	1	Digi-Key	RC0603FR-0795K3L	RES SMD 95.3K OHM 1% 1/10W 0603	Yageo	95K
18	R3	1	Digi-Key	ERJ-3EKF1204V	RES SMD 1.2M OHM 1% 1/10W 0603	Panasonic	1.2M
19	R4	1	Digi-Key	ERJ-3EKF1002V	RES SMD 10K OHM 1% 1/10W 0603	Panasonic	10K
20	R5, R6	2	Digi-Key	ERJ-PA3F4701V	RES SMD 4.7K OHM 1% 1/4W 0603	Panasonic	4.7K
21	R7, R8	2	Digi-Key	ERJ-3EKF1001V	RES SMD 1K OHM 1% 1/10W 0603	Panasonic	1K
22	R9	1	Digi-Key	ERJ-3EKF2201V	RES SMD 2.2K OHM 1% 1/10W 0603	Panasonic	2.2K
23	R10	1	Digi-Key	ERJ-3EKF3300V	RES, 330R, 0603	Panasonic	330R
24	RP1, RP2	2	Digi-Key	EXB-38V103JV	RES ARRAY 4 RES 10K OHM 1206	Panasonic	EXB38V_SEPERATED
25	S1	1	Digi-Key	FSM6JSMA	SWITCH TACTILE SPST-NO 0.05A 12V	TE Connectivity	Tactile_Switch
26	S2	1	DX.com	122745	DX_Navigation Switch		Navigation Switch
27	S3	1	Digi-Key	JS102000SAQN	SWITCH SLIDE SPDT R/A	C&K	SWITCH SLIDE
28	U1	1	Digi-key	TPS61040DBVR	IC LED DRV R WHITE BCKLGT SOT23-5	Texas Instruments	TPS61040DBVR
29	U2	1	Digi-Key	DS1340U-33+	IC RTC SERIAL 512K 8-TSSOP	Maxim	DS1340U-33+
30	U3	1	Digi-Key	HDC1080DMBT	Humidity/Temperature Sensor	Texas Instruments	HDC1080DMBT
31	U4	1	Digi-Key	ATSAMD21G18A-AU	IC MCU 32BIT 256KB FLASH 48-TQFP	Atmel	ATSAMD21G18A-AU
32	U5	1	Digi-Key	CAT6219-330TDGT3	IC REG LDO 3.3V 0.5A SOT23-5	On Semi	CAT6219-330TDGT3
33	X1	1	Buy-Display	ER-OLED0.95-2C	0.95 INCH OLED GLASS COLOR	Buy-Display	OLED_GLASS 0.95 inch
34	X2, X3	2	Digi-Key	ECS-.327-12.5-34B	CRYSTAL 32.768 KHZ 12.5PF SMD	ECS	ECS-.327-12.5-34B

Approved

Notes