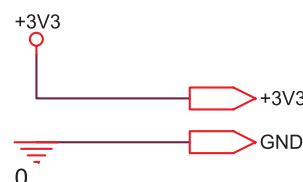
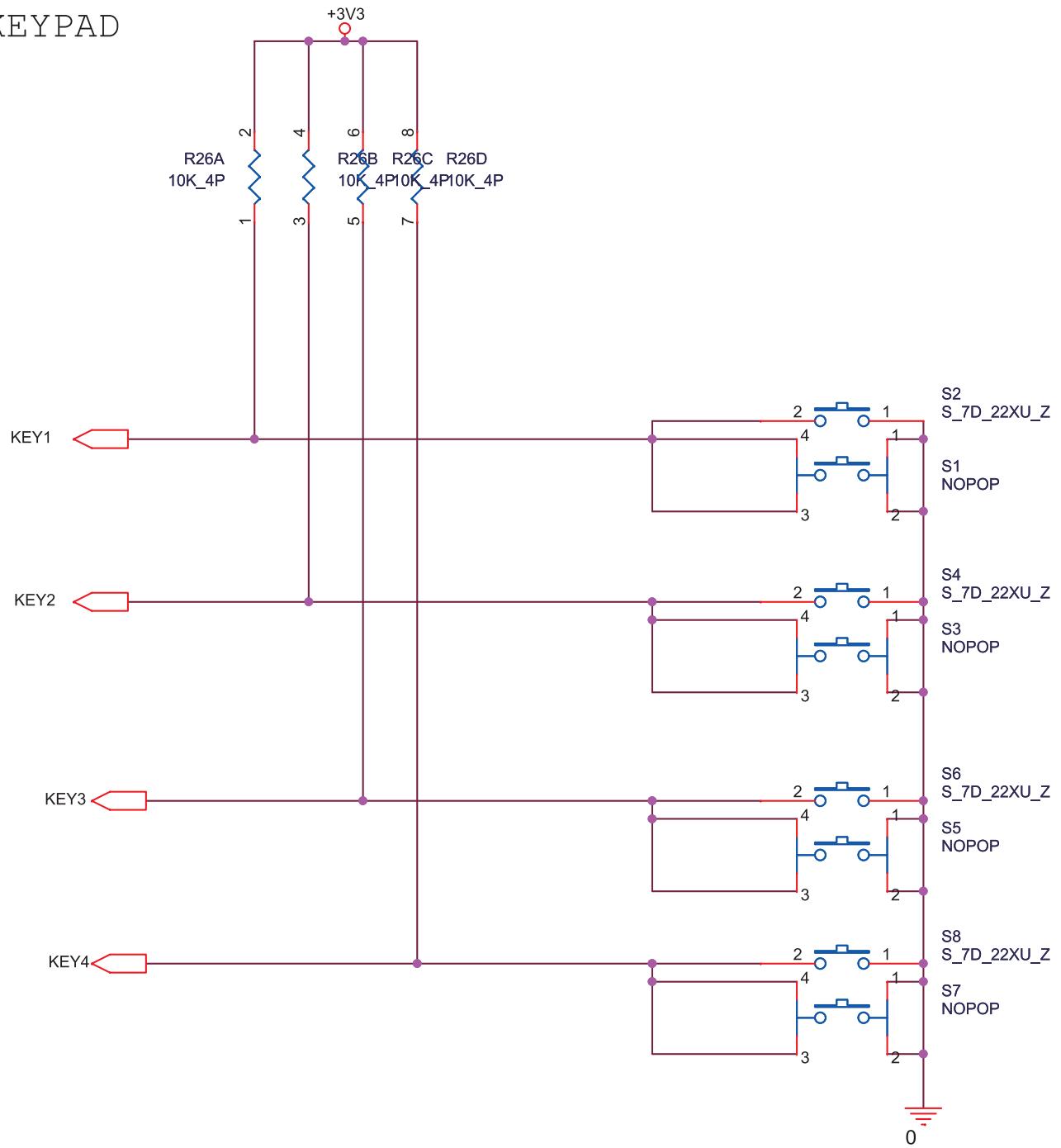


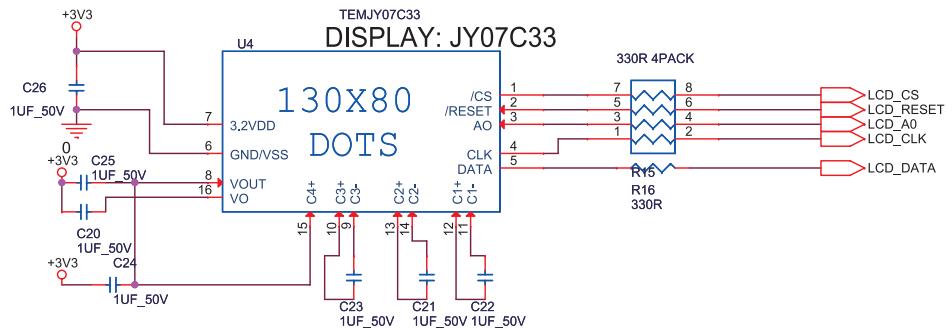
Z:\Designs\T3_Modules\Hardware\STM32F103VET_T3\STM32_MainBoard_REV_0							
Bill Of Materials		December 29,2014 9:40:47					
Item	Qty	Reference	Value	PCB Footprint	Description	Title	Part Number
1	8	ANT1,ANT2,ANT3,ANT4,ANT5,ANT6,ANT7,ANT8	ATN_SMA	ZIGBEE-SMA-S	FOR zigbee,gsm,wifi and so on		ATN_SMA
2	1	C1	0.01UF_50V	SM/C_0805		10%	0.01UF_50V_0805
3	10	C2,C3,C5,C6,C12,C27,C28,C29,C31,C36	0.1UF_50V	SM/C_0805		10%	0.1UF_50V_0805
4	2	C4,C35	1UF_50V	SM/C_0805		10%	1UF_50V_0805
5	1	C7	0.1UF_50V	SM/C_0805			0.1UF_50V_0805
6	4	C8,C9,C17,C19	18PF_50V	SM/C_0805		10%	18PF_50V_0805
7	2	C10,C11	10PF_50V	SM/C_0805		10%	12PF_50V_0805
8	1	C13	4.7UF_10V	SM/C_TANT			4.7UF_10V_TANT
9	1	C14	330UF_16V	CPCYL1/D.200/LS.100/.031		20%	330UF_16V_DIP
10	1	C15	100UF_25V	CPCYL1/D.200/LS.100/.031		20%	100UF_25V_DIP
11	1	C16	10UF_16V	SM/C_TANT		10%	10UF_16V_TANT
12	1	C18	0.1F_5.5V	CESUPERCAP.1F			0.1F_5.5V_DIP
13	7	C20,C21,C22,C23,C24,C25,C26	1UF_50V	SM/C_0805			
14	1	C30	220PF_50V	SM/C_0805		10%	220PF_50V_0805
15	1	C32	1NF_50V	SM/C_0805		10%	1NF_50V_0805
16	1	C33	470UF_50V	CPCYLHORIZ/D.400/LS.200/.034		20%	470UF_50V_DIP
17	1	C34	100PF_50V	SM/C_0805		10%	100PF_50V_0805
18	1	C37	10UF_16V	SM/C_TANT			10UF_16V_TANT
19	6	D1,D2,D8,D9,D10,D11	LED_RED	SM/D_0805_21			LED_RED_0805
20	1	D3	BZA408B	SM/SOT457	Non-clamping range: -5 V to +5 V		BZA408B_450
21	1	D4	ZCLB7304	FLEX_16P_0.5MM_BACKLIGHT	_NEW_2		
22	1	D5	1N4148	SM/D_1206_21_2	Fast Switching Diodes		1N4148_1206
23	1	D6	1N4744	SM/D_1206_21_REV1	VZ=15V		1N4744_15V_1206
24	2	D7,D17	1N5819	SM/D_MLL41_21	V(RMS)=28V		1N5819
25	3	D12,D13,D14	SMBJ10CA	SM/MOV40V	V(RWM)=10V		SMBJ10CA
26	1	D15	1N4007	SM/D_MLL41_21	VRM=1000V		1N4007
27	1	D16	1N4729/1N4734	SM/D_1206_21_2	1N4729 VZ=3.6V,1N4734 VZ=3.6V CO2_MAINBOARD		1N4729/1N4734
28	1	D18	1N5819	SM/D_MLL41_12	V(RMS)=28V		1N5819
29	3	F1,F2,F3	0.1A_60V	SM/FUSE_1812	MF-MSMF Series - PTC Resettable Fuses		MF-MSMF010
30	1	F4	0.65A_60V	RAD/.250X.125/LS.200/.034	LP60 series		LP60-065

31	1	J1	LU1S041XLF	TELE/TM.310FACE/8X8/2	no_led ,Fit ASIX11015,NC		SDW1XLF
32	1	J2	Micro_SD	MICROSD	MOLEX SD Slot		micoSD
33	1	J3	RFID_module	SIP/UHF MODULE_15P_REV1	USE FOR RFID_LABATTS		D_modRFI
34	2	J4,J5	Header7_2.54	SIP/TM/L.700/7	Pitch=2.54mm, single, male, 180°		Header7_2.54
35	1	J6	Mounting_hole	BOARDOUTLINE_VC1000_BOT_2_2 MOUNTING HOLE	2_2 MOUNTING HOLE		CONN77
36	1	J7	CON6	SIP/TM/L.700/7			
37	1	J8	Header4_2.54	SIP/TM/L.400/4_REV1	Pitch=2.54mm.singal, male, 180°		CONN36
38	1	J9	Header6_2.54_7.7mm	SIP/TM/L.600/6	Pitch=2.54mm,single, male, 80°,H=7.7mm,P=2mm,T1000		Header6_2.54_7.7mm
39	1	J10	CN-USB	MICROUSB_REV2			
40	1	J11	Header20X2+2HOLES	ETB2INCH	single,male,two-in-one,Blue,Penta		Euro2_5.08 two_in_one blue
41	1	J12	ETB3_5.08	ETB3INCH	Pitch=5.08mm, single, male, 180°,Black		Header3_5.08
42	1	J13	ETB2_5.08	ETB2INCH	Pitch=5.08mm,single, male , 90°,Green,Plugg able		CONN25
43	1	K1	JRC-23FHS	RELAYJRC_23F	Tstat5C		JRC-23FHS
44	1	LS1	BUZZER_Small	BEEPER_SMALL	CO2 Main Board BUZZER		LS
45	3	L1,L6,L7	0.3A_1K	SM/C_0805	0.3A_1K_100MHZ		0.3A_1K
46	2	L2,L3	47uH	SM/C_0805			47uH
47	1	L4	22uH_1A	L/330UH	0709,1A,22UH		22uH_1A
48	1	L5	330uH_1A	L/330UH	0709,1A,330UH		330uH_1A
49	1	MOV1	SMBJ36CA	SM/MOV40V	V(RWM)=36V		SMBJ36CA
50	2	Q1,Q5	2N2222	SM/SOT23_123			2N2222
51	1	Q2	2N2907	SM/SOT23_123_2N2907			
52	1	Q3	SI2303BDS	SM/SOT23_123			SI2303BDS
53	1	Q4	2N2907	SM/SOT23_123_2N2907			2N2907
54	3	R1,R7,R11	1M_0805	SM/R_0805			1% 1M_0805
55	2	R2,R3	1K_0805	SM/R_0805			1% 1K_0805
56	4	R4,R5,R8,R9	49.9R_0805	SM/R_0805			1% 49.9R_0805
57	2	R6,R31	100R_0805	SM/R_0805			1% 100R_0805
58	2	R10,R32	200R_0805	SM/R_0805			1% 200R_0805
59	3	R12,R28,R29	100K_0805	SM/R_0805			1% 100K_0805
60	1	R13	2.32K_0805	SM/R_0805			1% 2.32K_0805
61	1	R14	R_10K_1%_4P	SM/R_1608_NET4			
62	1	R15	330R 4PACK	SM/R_1608_NET4			
63	1	R16	330R	SM/R_0805			
64	1	R17	30R	SM/R_1206			
65	1	R18	10K_0805	SM/R_0805			1% 10K_0805
66	1	R19	1.96K_0805	SM/R_0805			1% 1.96K_0805

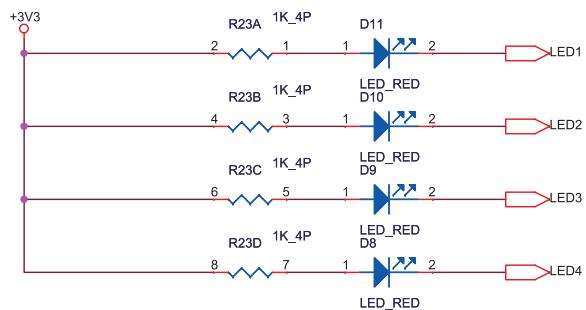
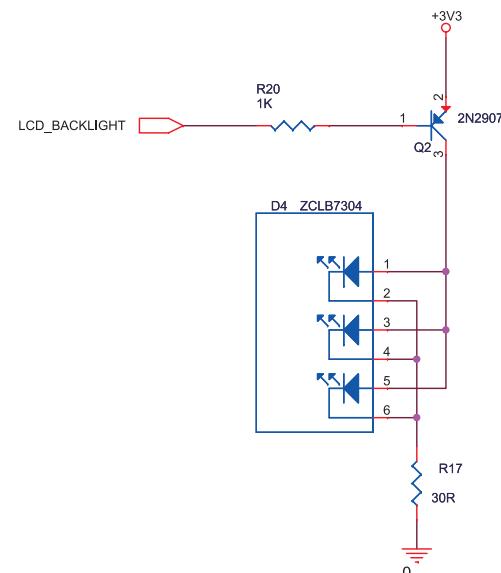
67	1	R20	1K	SM/R_0805			
68	1	R21	47K_0805	SM/R_0805			1% 47K_0805
69	1	R22	16.9K_0805	SM/R_0805			1% 16.9K_0805
70	1	R23	1K_4P	SM/R_1608_NET4			1% 10K_4P
71	1	R24	0.5R_1206	SM/R_1206_REV1			1% 0.5R_1206
72	1	R25	33K_0805	SM/R_0805			1% 33K_0805
73	1	R26	10K_4P	SM/R_1608_NET4			1% 10K_4P
74	1	R27	20K/11K_0805	SM/R_0805			1% 20K/11K
75	1	R30	10K_0805	SM/C_0805			10K_0805
76	2	R33,R34	22R_0805	SM/C_0805			22R_0805
77	1	R35	1.5K_0805	SM/C_0805			1.5K_0805
78	4	S1,S3,S5,S7	NOPOP	KEY_TD07XB			
79	4	S2,S4,S6,S8	S_7D_22XU_Z	SW-PIN2			
80	1	U1	ADG804	SOP50P490X110-10N			
81	1	U2	ENC28J60	SOG.025/28/WG.420/L400 10M Ethernet chip			ENC28J60
82	1	U3	STM32F103VE	QUAD.50M/100/WG161000PCNs , small STM32 chip			STM32F103VE
83	1	U4	TEMJY07C33	FLEX_16P_0.5MM_REVERSE			
84	1	U5	U_CAT24C0168SOP150				
85	1	U6	SN65HVD3082	8SOP150			SN65HVD3082
86	1	U7	MC34063A_SO	8SOP150			MC34063A_SO
87	1	U8	LM3485	8USOP			LM3485
88	1	U9	PE4257	SOP20-PE4257			
89	1	Y1	32.768KHZ	32K_CRYSTAL			32.768KHZ
90	1	Y2	8Mhz	XTAL1	DIP		8Mhz
91	1	Y3	25Mhz	XTAL1	DIP		25Mhz

KEYPAD

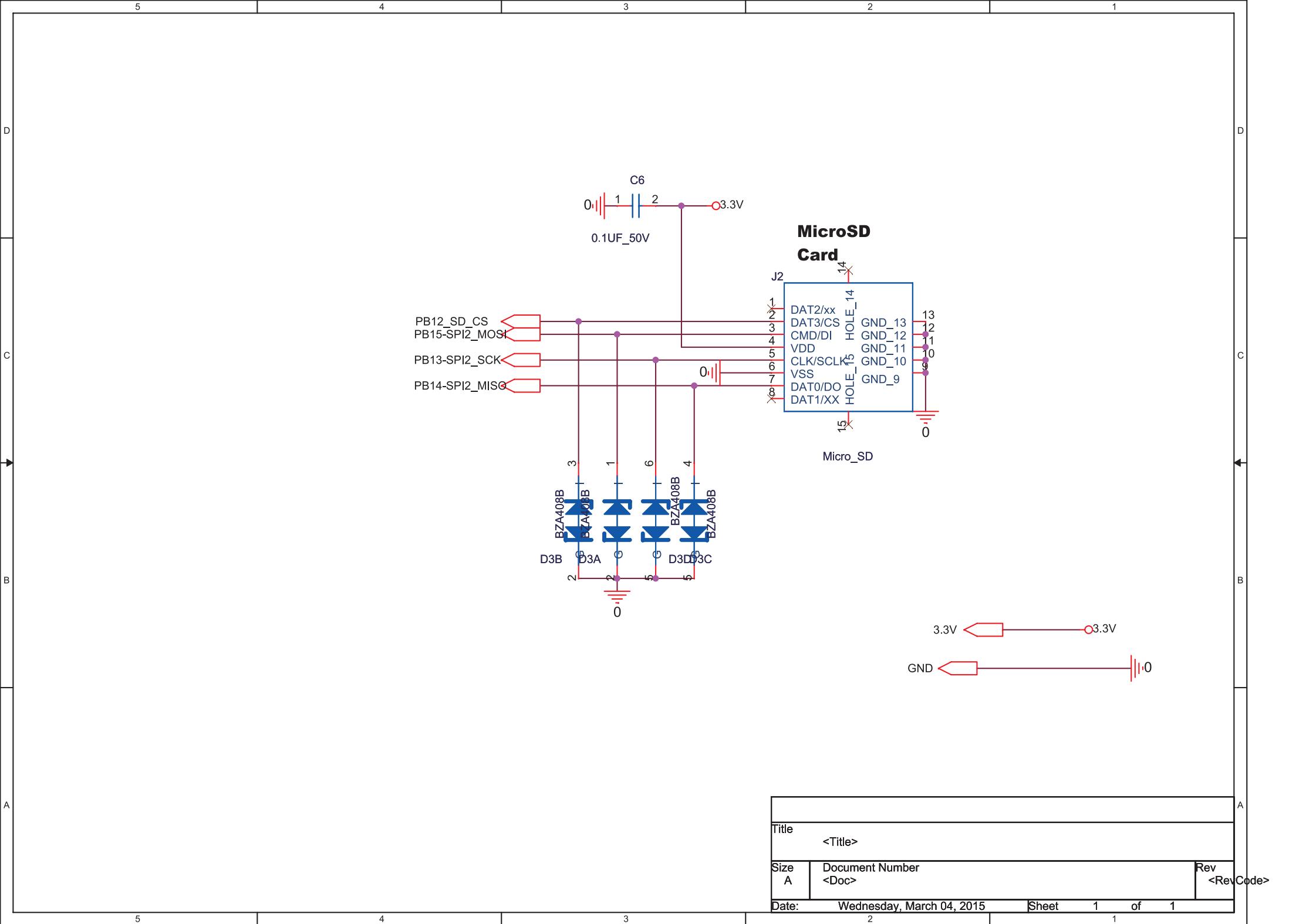




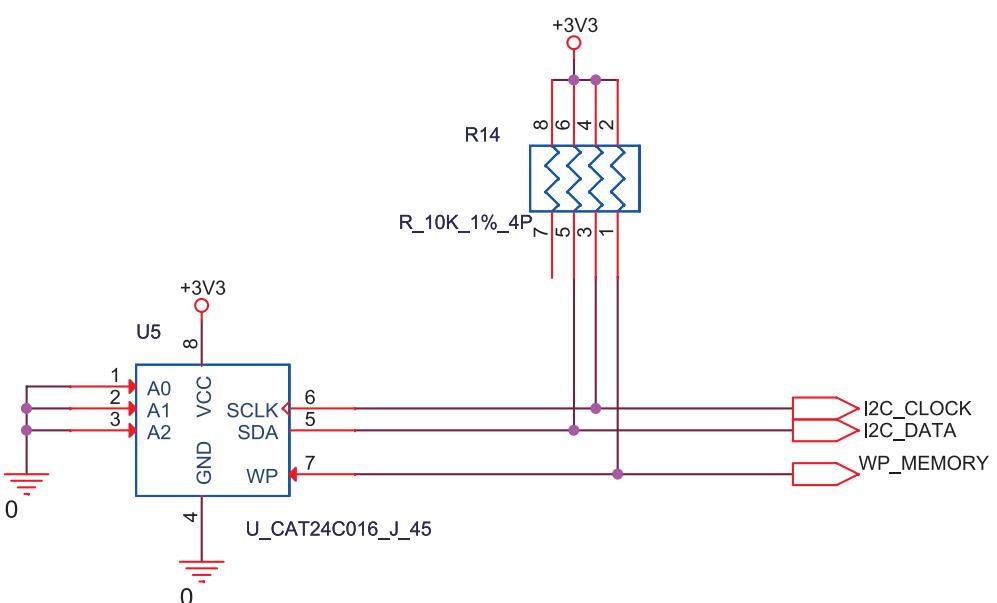
BACKLIGHT



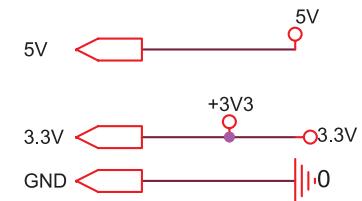
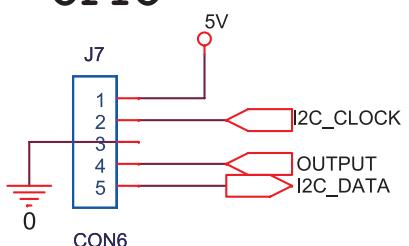
Title <Title>		Rev <RevCode>
Size B	Document Number <Doc>	
Date: Wednesday, March 04, 2015	Sheet 1 of 1	



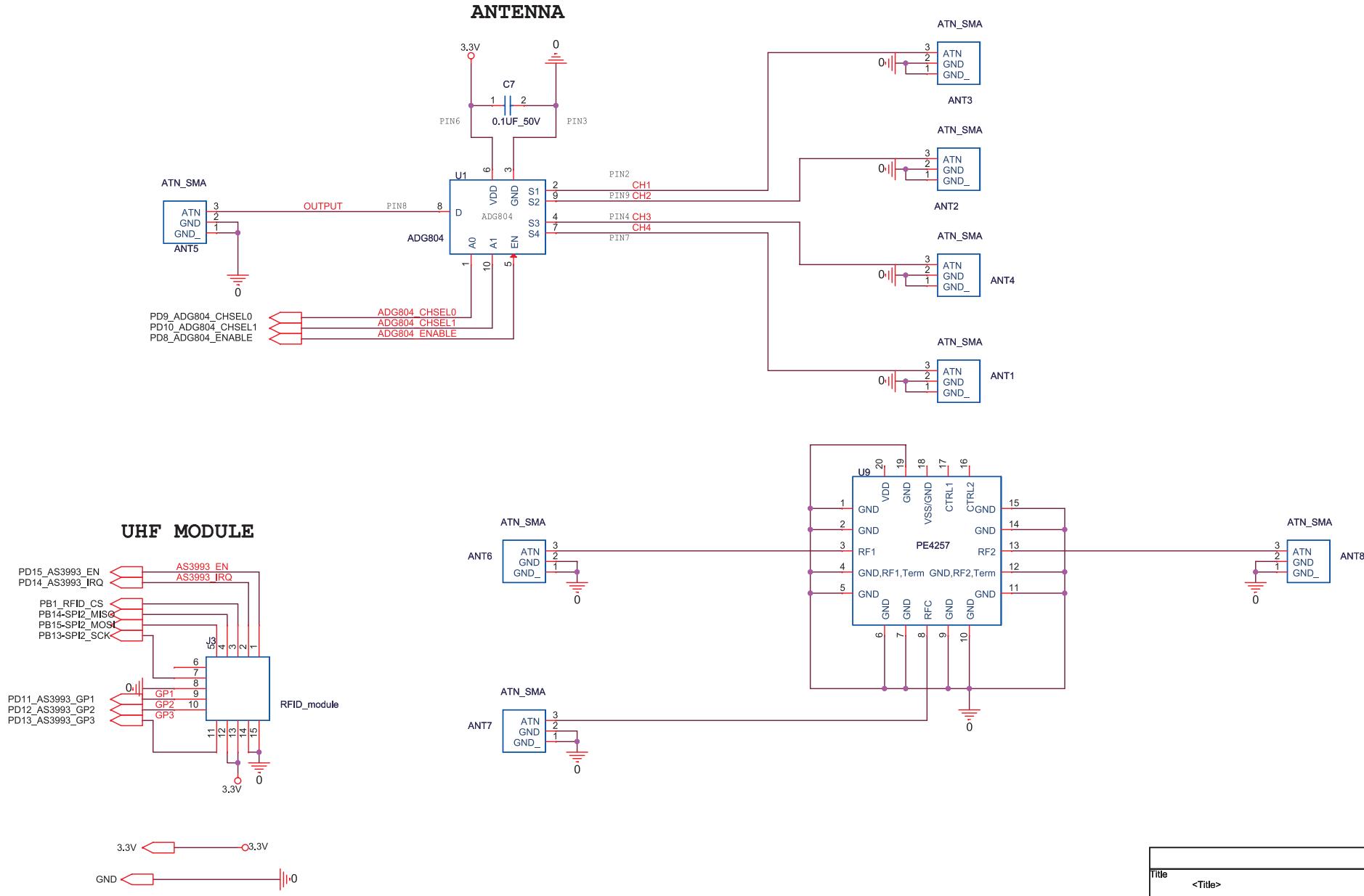
E2 MEMORY CHIP



OPTO



Title <Title>		Rev <RevCode>
Size A	Document Number <Doc>	
Date: Wednesday, March 04, 2015	Sheet 1 of 1	



Title <Title>			
Size B	Document Number <Doc>	Rev <Rev>	Code
Date: Thursday, March 05, 2015		Sheet	1 of 1

D

D

C

C

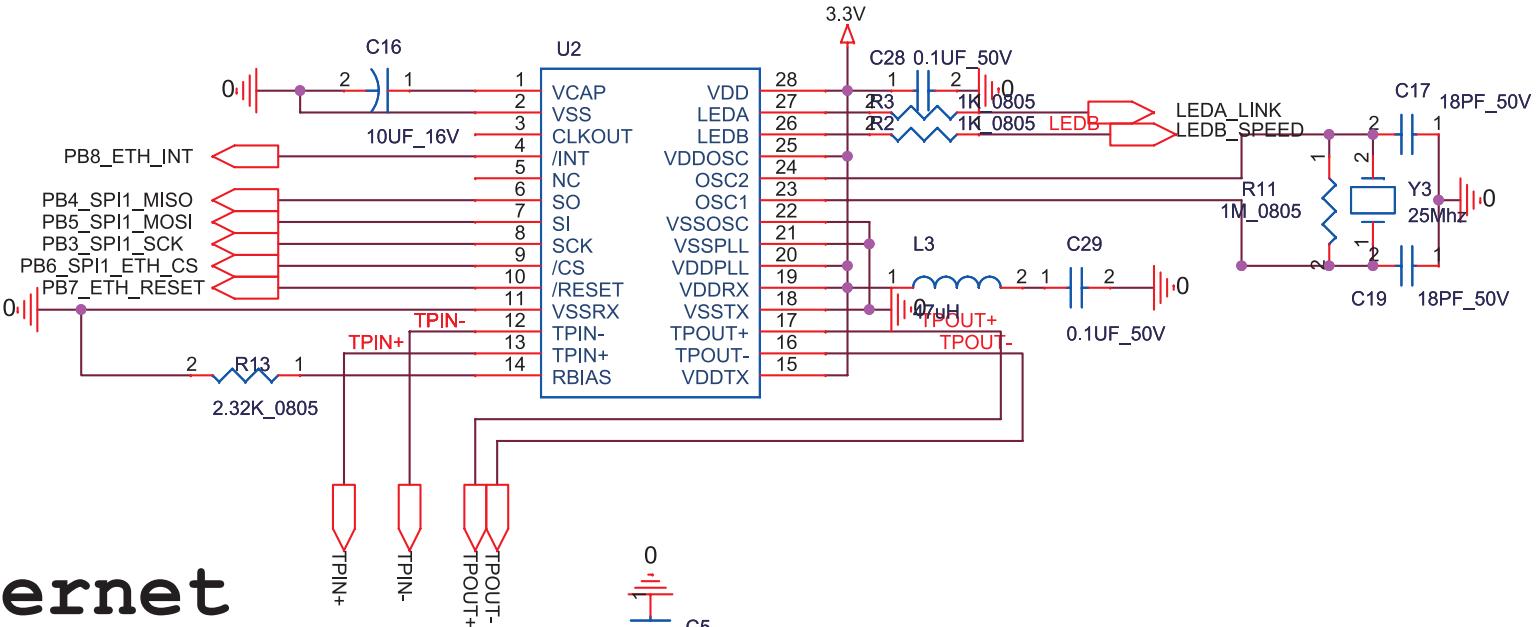
B

B

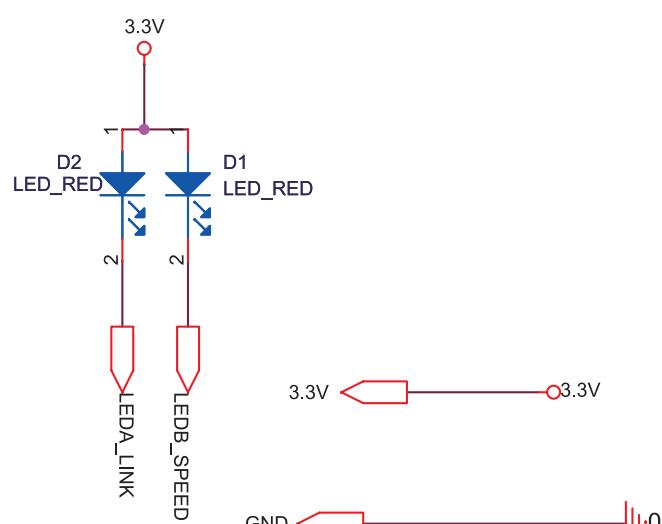
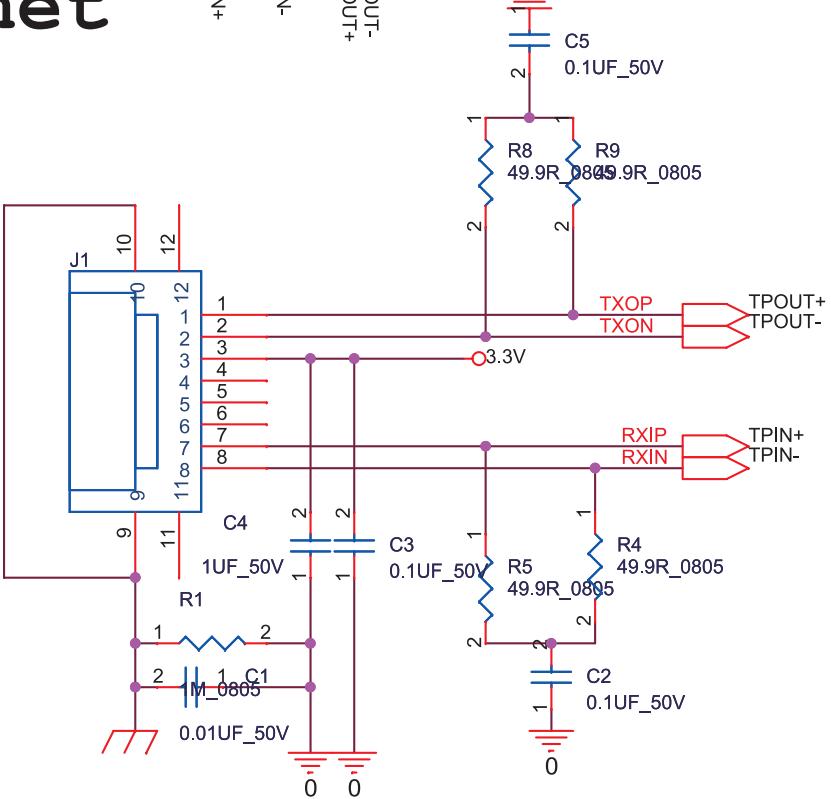
A

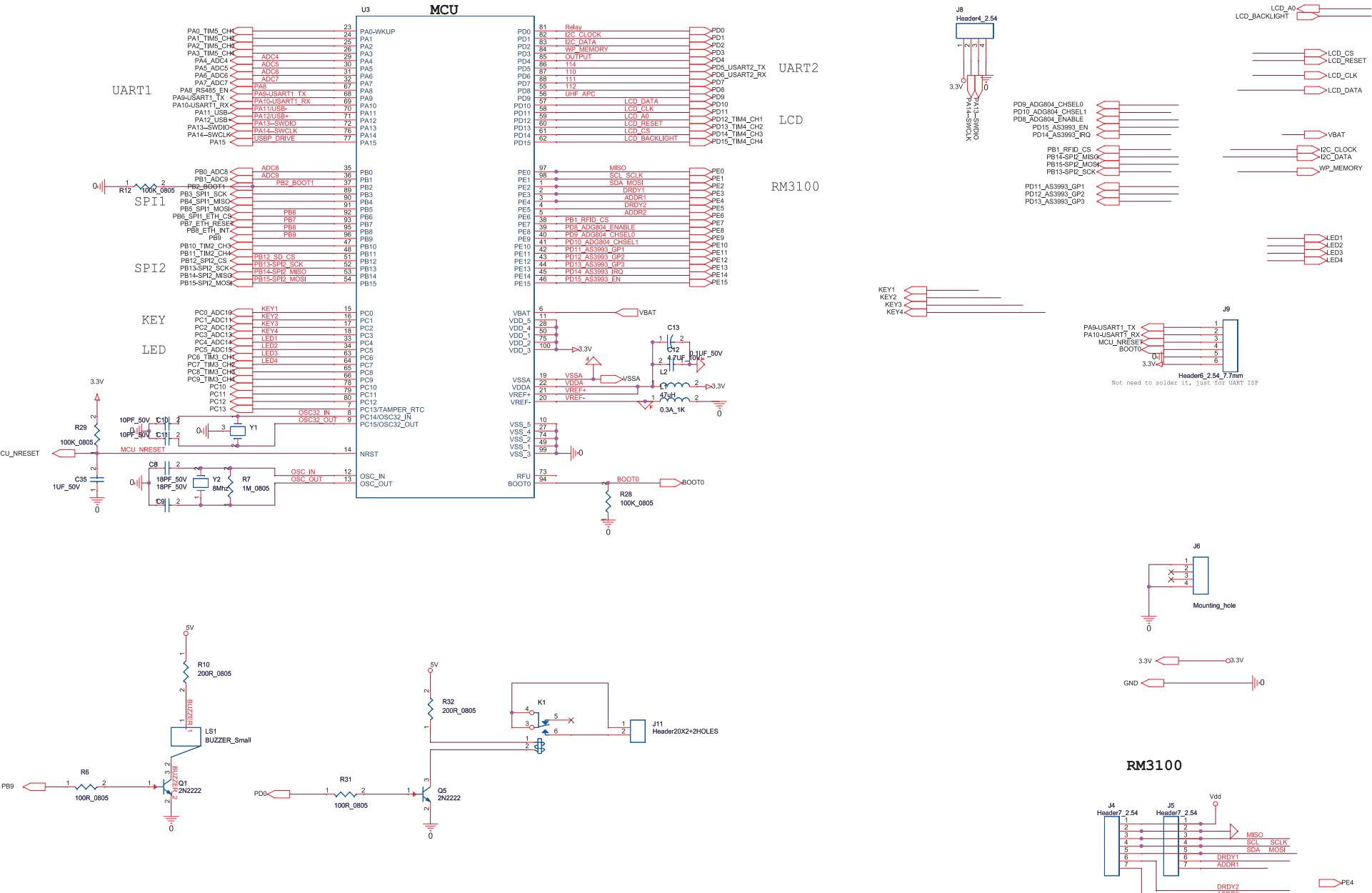
A

Title <i><Title></i>		
Size A	Document Number <i><Doc></i>	Rev <i><RevCode></i>
Date:	Wednesday, January 28, 2015	Sheet 1 of 1

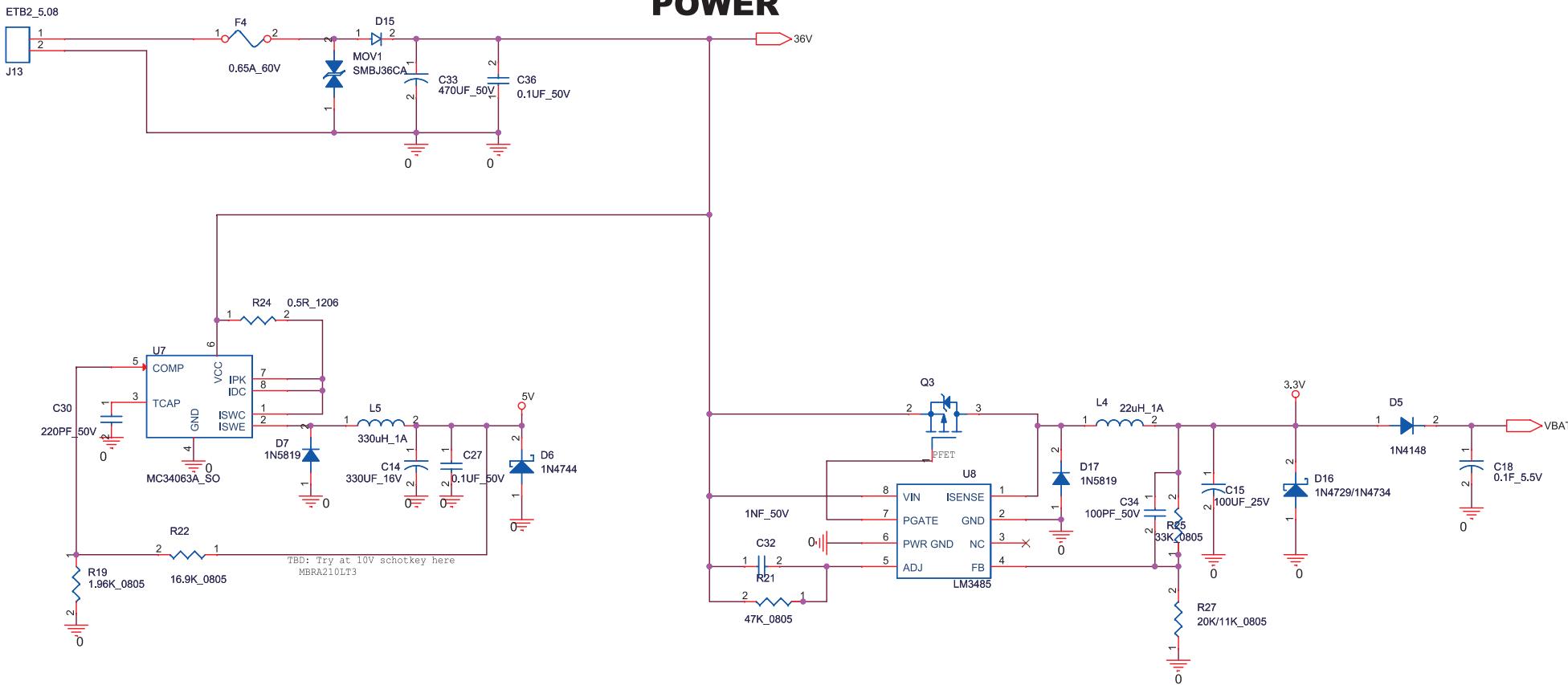


Ethernet





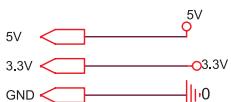
POWER



NOTE :

VCC=5V , R15=11K

VCC=3.3V, R15=20K



Title		<Title>	
Size		Document Number	
B	<Doc>	Rev	<Rev>
Date:	Wednesday, March 04, 2015	Sheet	4 of 7

