

REV	REF	DATE	DRAWN BY
1	TRAC#1761	26.11.2010	SHN
2	TRAC#1829	03.02.2011	SHN
3	TRAC#1829	25.07.2011	MAB

RSKRX210 STARTER KIT SCHEMATICS

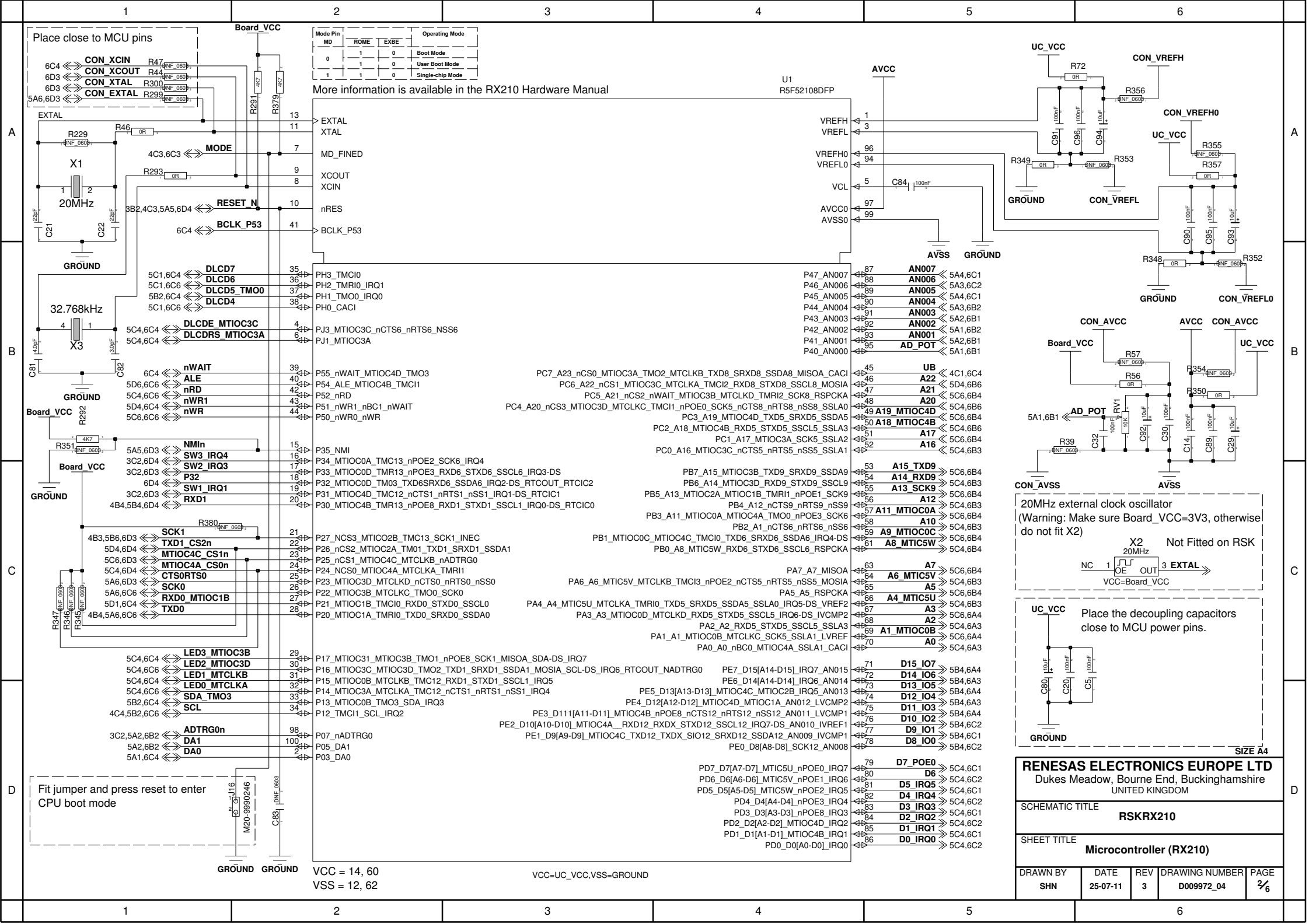
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4	Serial, E1 and IIC EEPROM
5	LCD, Option link and Application headers
6	MCU Ring headers

Note :

- R** : Resistor
- RV** : Potentiometer
- L** : Inductor
- U** : Integrated Circuit
- X** : Crystal
- RES** : Reset Switch
- SW** : Switch
- LED** : Light Emitting Diode
- PWR** : Power Jack
- J** : Connector

SIZE A4

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SCHEMATIC TITLE RSKRX210				
SHEET TITLE Index				
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Mode Pin	Operating Mode		
	MD	ROME	EXBE
0	1	0	Boot Mode
1	1	0	User Boot Mode
1	1	0	Single-chip Mode

More information is available in the RX210 Hardware Manual

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
13	EXTAL	11	XTAL	87	AN007	54A,6C1	
7	MD_FINED	9	XCOUT	88	AN006	5A3,6C2	
8	nRES	8	XCIN	89	AN005	5A4,6C1	
41	BCLK_P53	35	PH3_TMCIO	90	AN004	5A3,6B2	
		36	PH2_TMRI0_IRQ1	91	AN003	5A2,6B1	
		37	PH1_TMO0_IRQ0	92	AN002	5A1,6B2	
		38	PH0_CACI	93	AN001	5A2,6B1	
		4	PJ3_MTIIOC3C_nCTS6_nRTS6_nSS6	94	AD_POT	5A1,6B1	
		6	PJ1_MTIIOC3A	95	AD_POT	5A1,6B1	
		39	P55_nWAIT_MTIIOC4D_TMO3	45	UB	4C1,6C4	
		40	P54_ALE_MTIIOC4B_TMC1	46	A22	5D4,6B6	
		42	P52_nRD	47	A21	5C6,6B4	
		43	P51_nWR1_nBC1_nWAIT	48	A20	5C4,6B6	
		44	P50_nWR0_nWR	49	A19_MTIIOC4B	5C6,6B4	
				50	A18_MTIIOC4D	5C4,6B6	
				51	A17	5C6,6B4	
				52	A16	5C4,6B3	
				53	A15_TXD9	5C6,6B4	
				54	A14_RXD9	5C4,6B3	
				55	A13_SCK9	5C6,6B4	
				56	A12	5C4,6B3	
				57	A11_MTIIOC0A	5C6,6B4	
				58	A10	5C4,6B3	
				59	A9_MTIIOC0C	5C6,6B4	
				60	A8_MTIOSW	5C4,6B4	
				61	A8_MTIOSW	5C4,6B4	
				62	A8_MTIOSW	5C4,6B4	
				63	A7	5C6,6B4	
				64	A6_MTIOSV	5C4,6B3	
				65	A5	5C6,6B4	
				66	A4_MTIOSU	5C4,6B3	
				67	A3	5C6,6B4	
				68	A2	5C4,6A3	
				69	A1_MTIIOC0B	5C6,6B4	
				70	A0	5C4,6A3	
				71	D15_IO7	5B4,6A4	
				72	D14_IO6	5B4,6A3	
				73	D13_IO5	5B4,6A4	
				74	D12_IO4	5B4,6A4	
				75	D11_IO3	5B4,6A3	
				76	D10_IO2	5B4,6A4	
				77	D9_IO1	5B4,6C2	
				78	D8_IO0	5B4,6C1	
				79	D7_POE0	5C4,6C1	
				80	D6	5C4,6C2	
				81	D5_IRQ5	5C4,6C1	
				82	D4_IRQ4	5C4,6C2	
				83	D3_IRQ3	5C4,6C1	
				84	D2_IRQ2	5C4,6C2	
				85	D1_IRQ1	5C4,6C1	
				86	D0_IRQ0	5C4,6C2	
				87	D0_IRQ0	5C4,6C2	
				88	D0_IRQ0	5C4,6C2	
				89	D0_IRQ0	5C4,6C2	
				90	D0_IRQ0	5C4,6C2	
				91	D0_IRQ0	5C4,6C2	
				92	D0_IRQ0	5C4,6C2	
				93	D0_IRQ0	5C4,6C2	
				94	D0_IRQ0	5C4,6C2	
				95	D0_IRQ0	5C4,6C2	
				96	D0_IRQ0	5C4,6C2	
				97	D0_IRQ0	5C4,6C2	
				98	D0_IRQ0	5C4,6C2	
				99	D0_IRQ0	5C4,6C2	

VCC = 14, 60
VSS = 12, 62

VCC=UC_VCC,VSS=GROUND

20MHz external clock oscillator
(Warning: Make sure Board_VCC=3V3, otherwise do not fit X2)

X2 20MHz Not Fitted on RSK
VCC=Board_VCC

Place the decoupling capacitors close to MCU power pins.

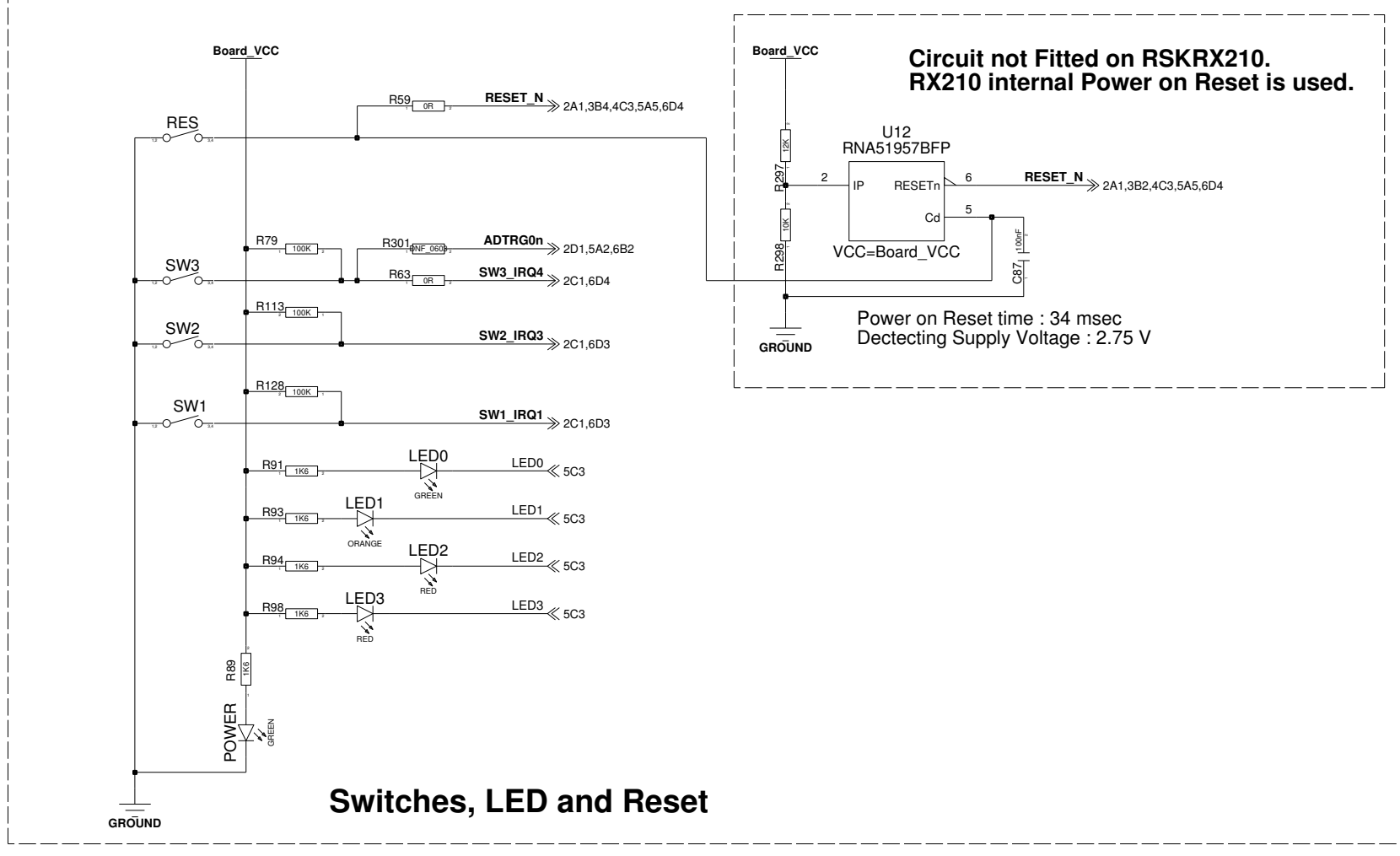
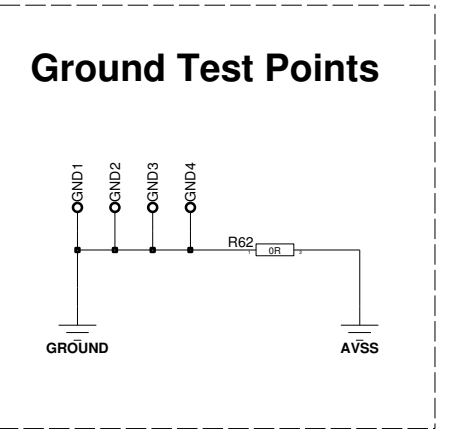
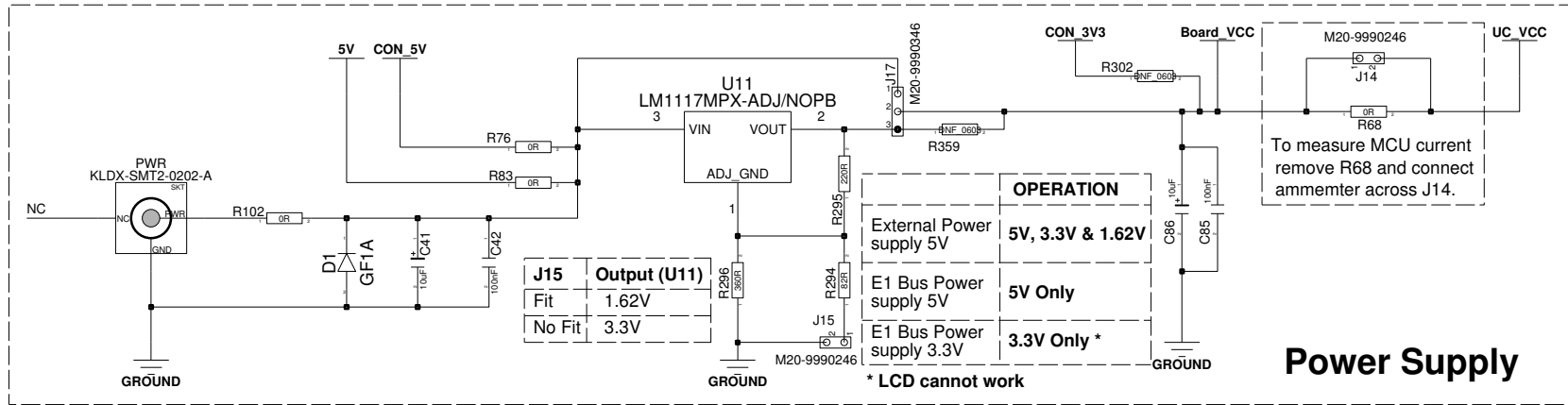
UC_VCC
GND

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SCHEMATIC TITLE
RSKRX210

SHEET TITLE
Microcontroller (RX210)

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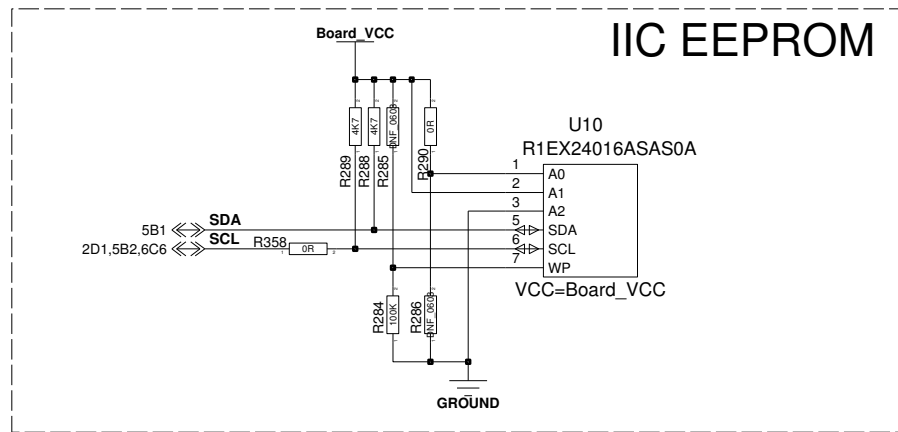
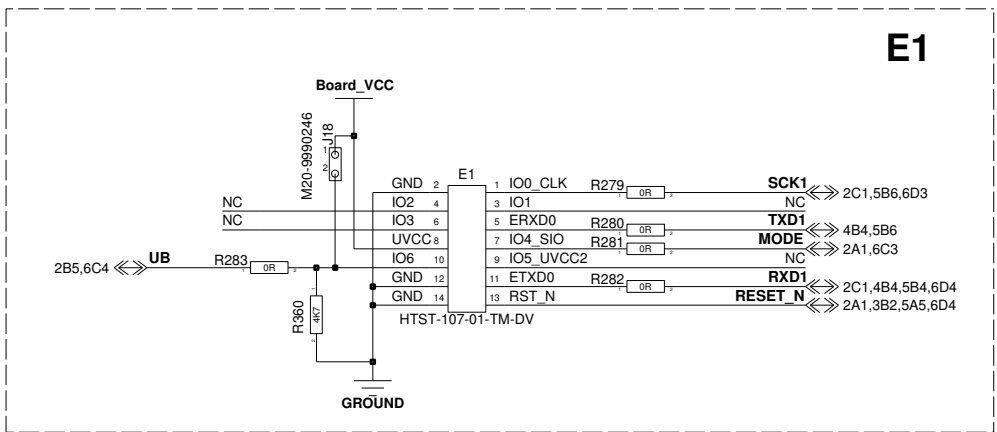
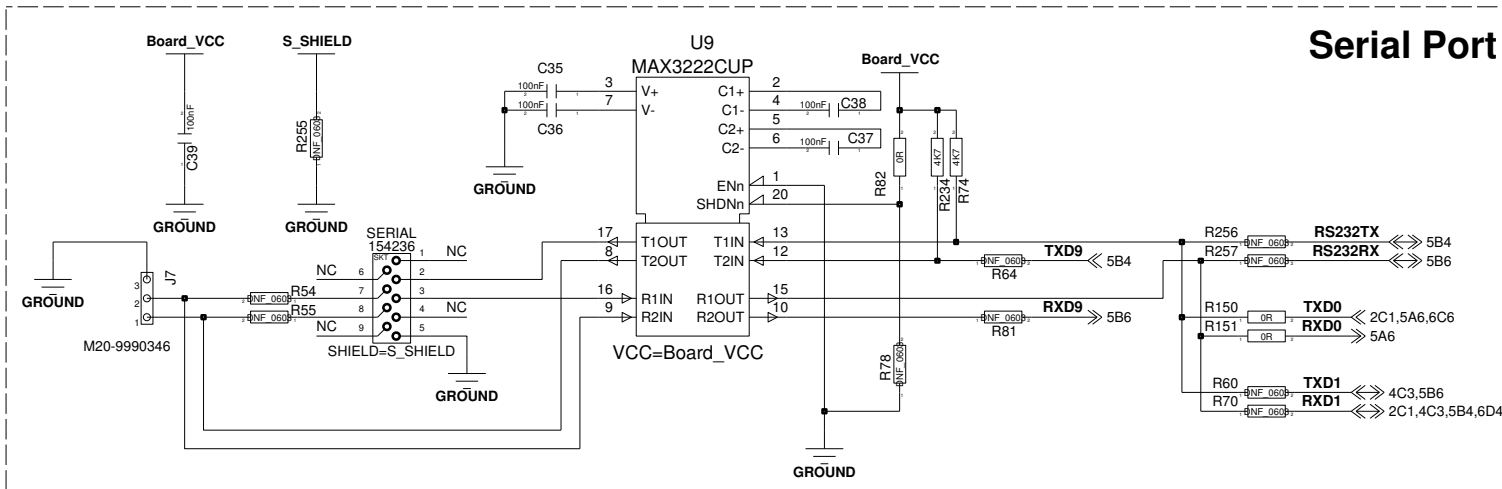
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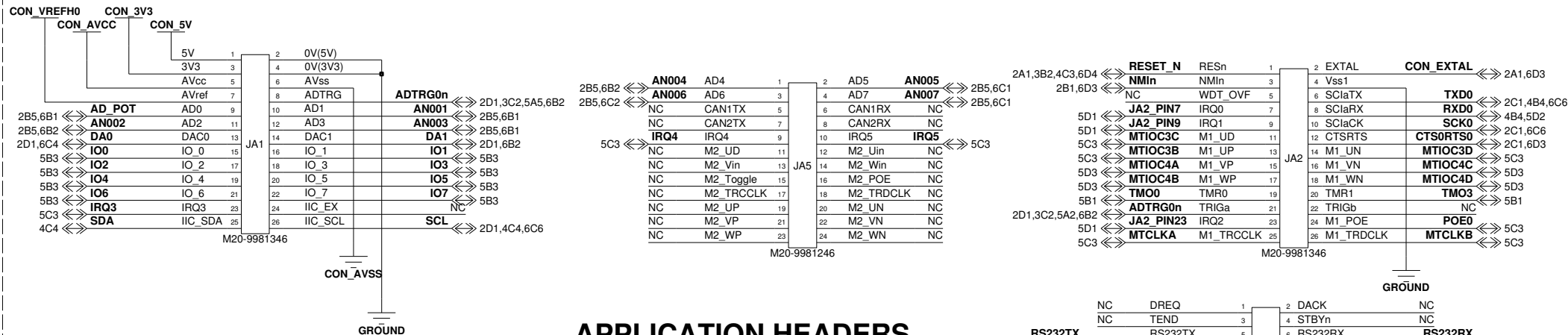
SCHEMATIC TITLE
RSKRX210

SHEET TITLE
Power, Switches, LED's and Reset

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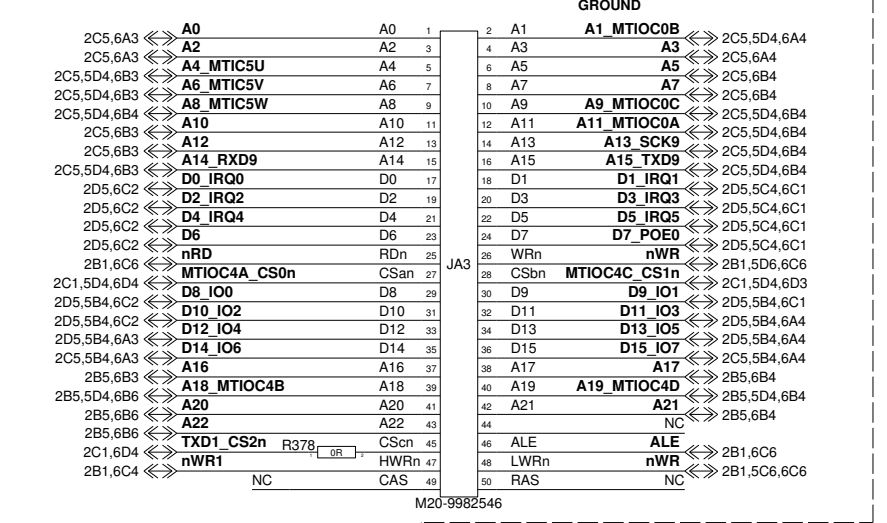
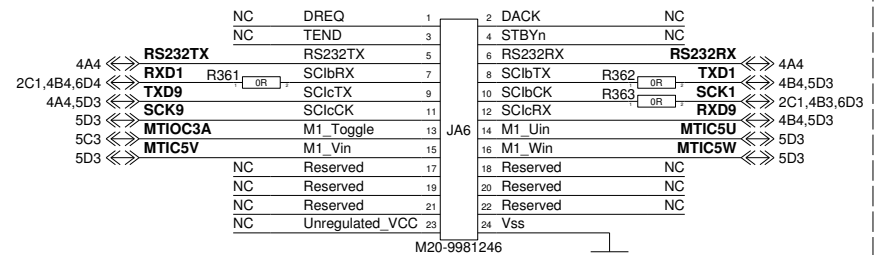
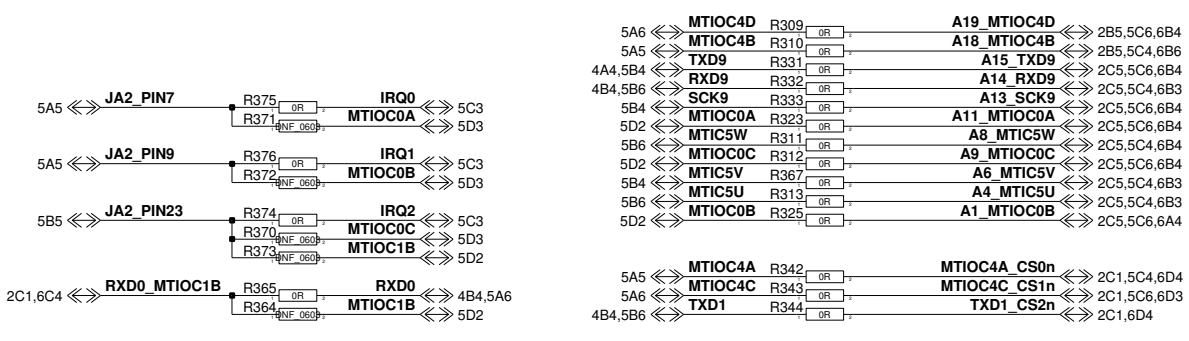
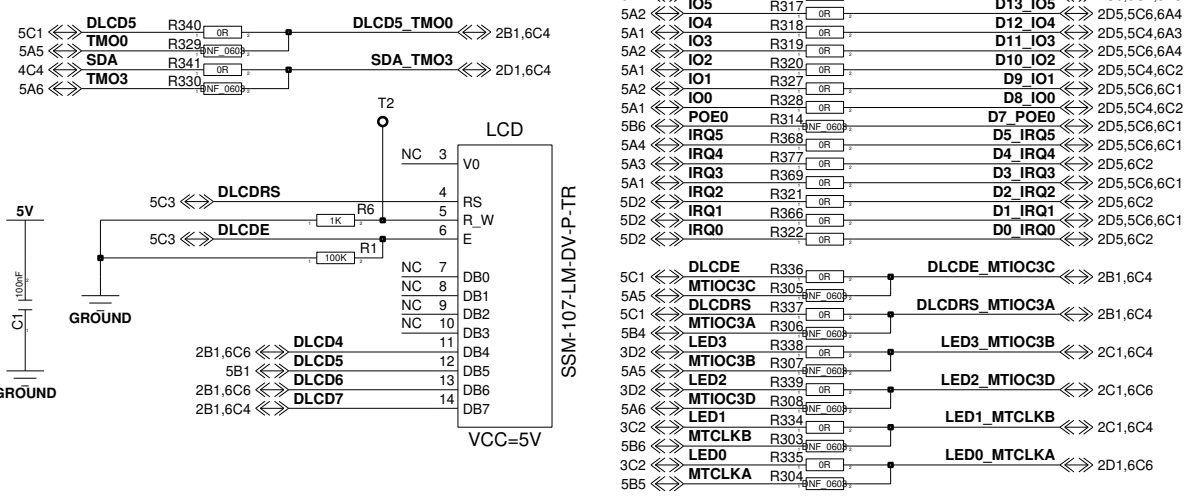


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SCHEMATIC TITLE RSKRX210				
SHEET TITLE Serial, E1 and IIC EEPROM				
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APPLICATION HEADERS

DEBUG LCD and OPTION LINKS



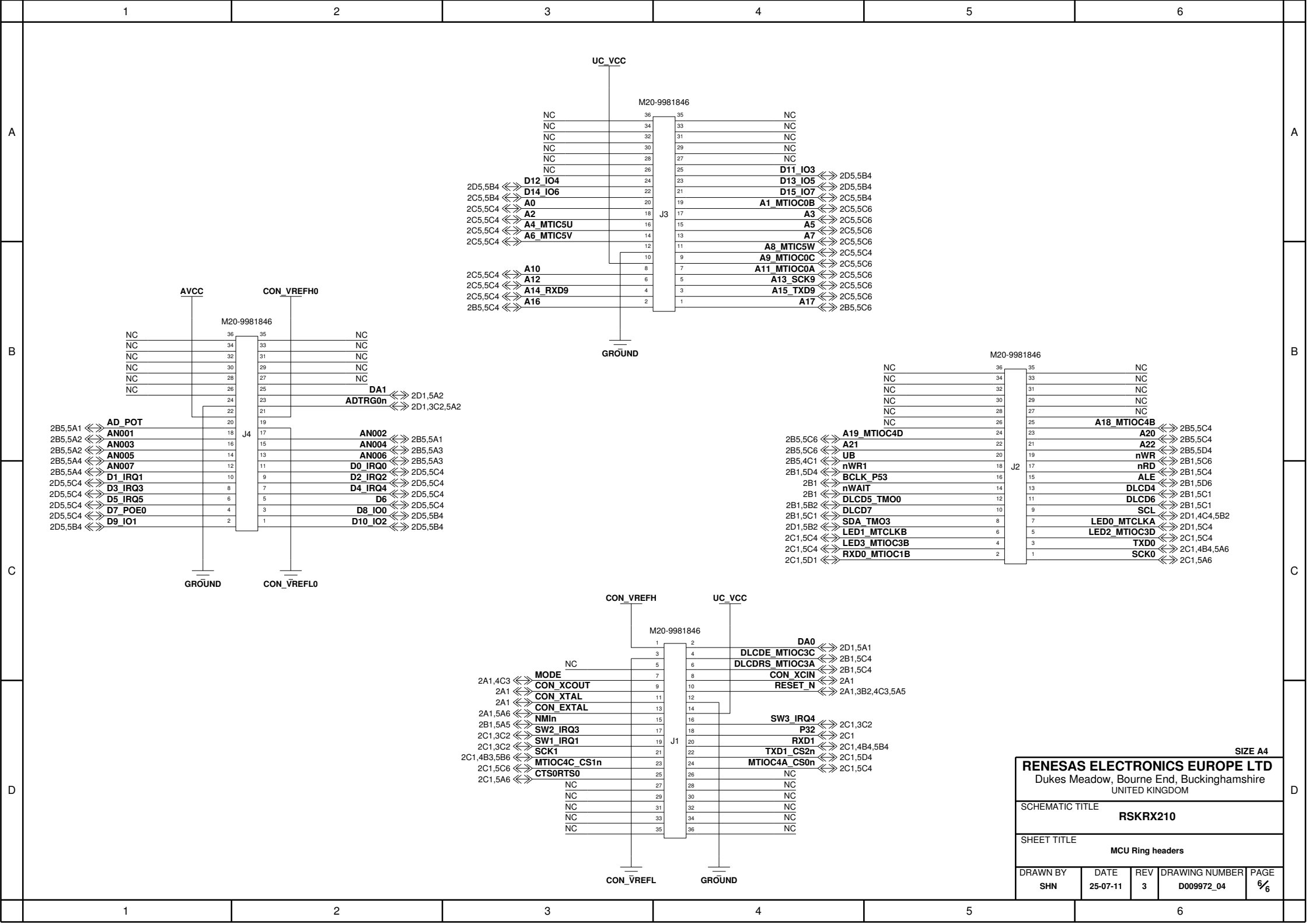
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SCHEMATIC TITLE
RSKRX210

SHEET TITLE
LCD, Option link and Application headers

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SCHEMATIC TITLE
RSKRX210

SHEET TITLE
MCU Ring headers

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