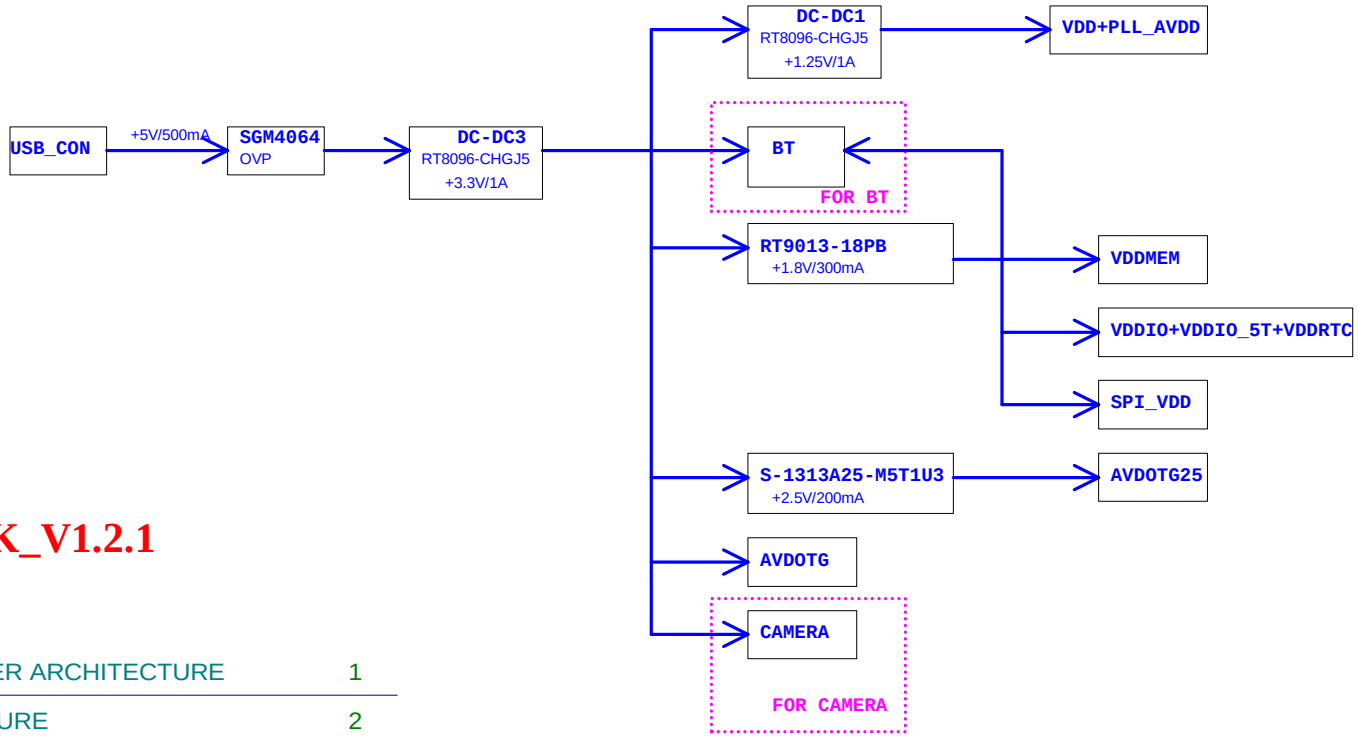
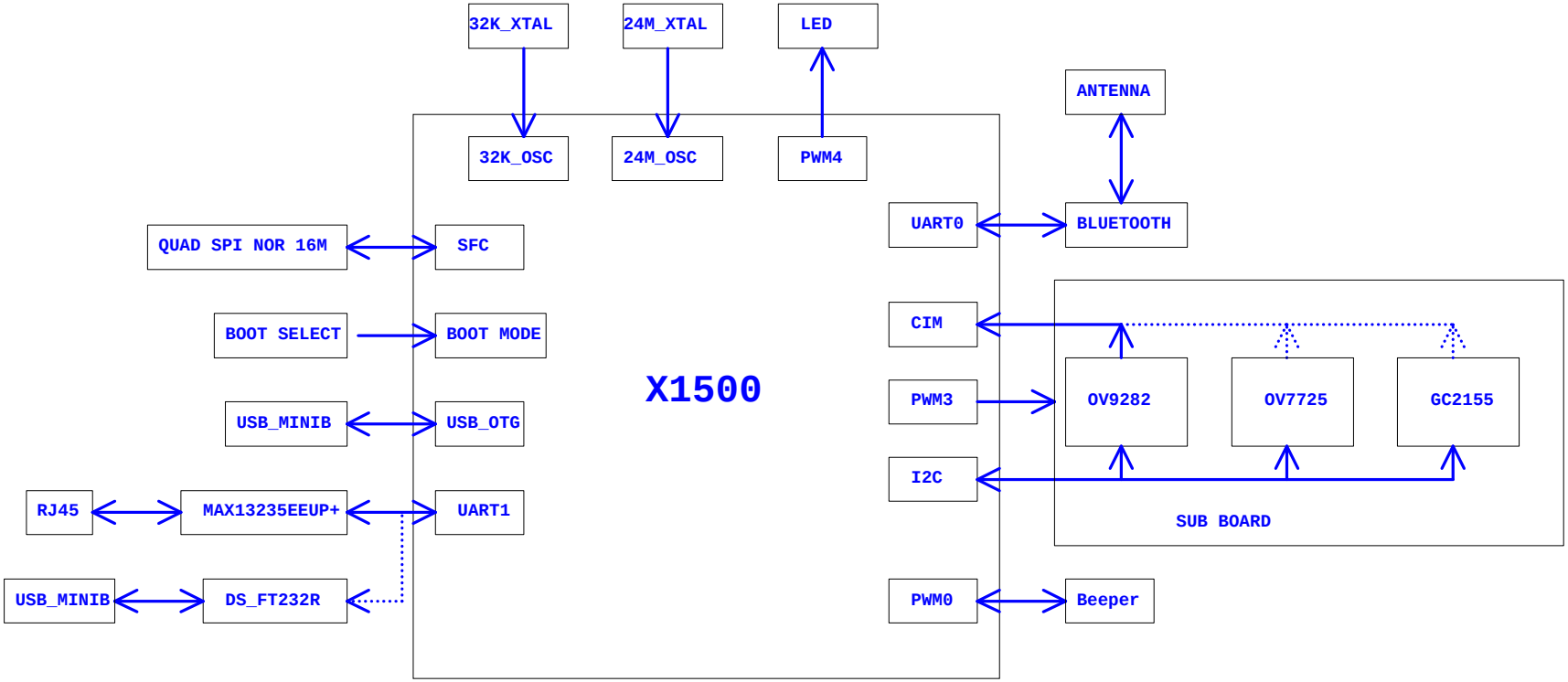
Ingenic



RD_X1500_YAK_V1.2.1

INGENIC SEMICONDUCTOR CO.,LTD

Title: RD_X1500_YAK		
Size: A3	Document Number: COVER SHEET/POWER ARCHITECTURE	Rev: 1.2.1
Date: Tuesday, March 07, 2017	Sheet 1 of 8	



INGENIC SEMICONDUCTOR CO.,LTD		
Title: RD_X1500_YAK		
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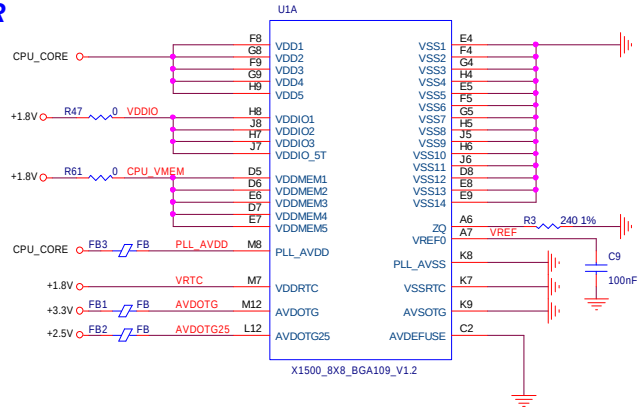
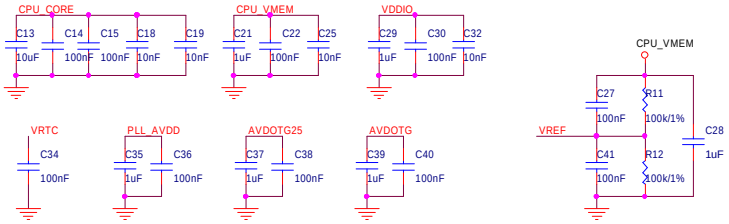
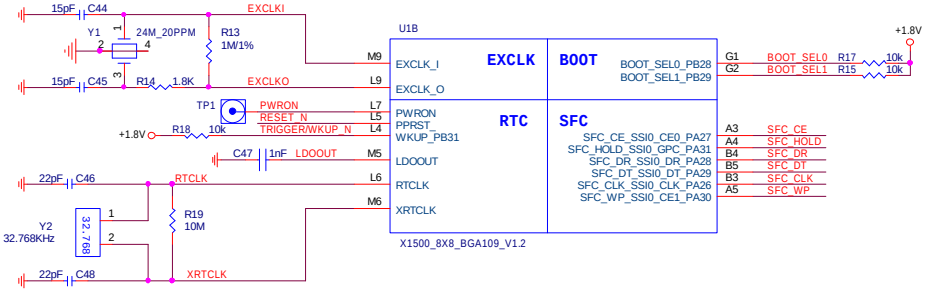
CPU_POWER



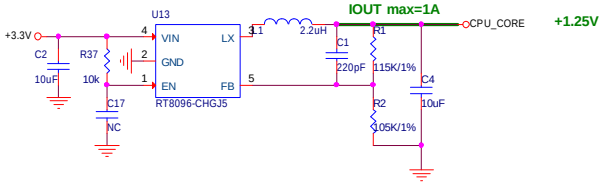


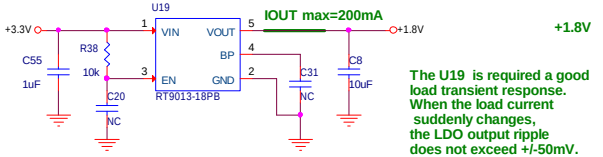
BOOT & CLOCK



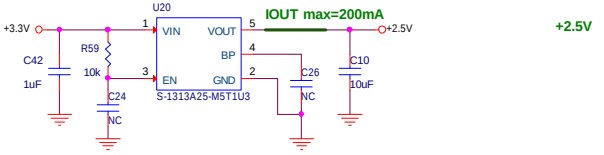
TRIGGER/WKUP_N 4,5
BOOT_SEL0 4,5
RESET_N 4,5

MAIN POWER

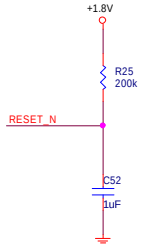


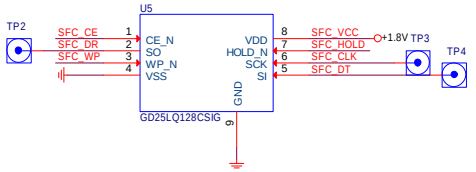


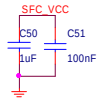
The U19 is required a good load transient response. When the load current suddenly changes, the LDO output ripple does not exceed +/-50mV.



RC_RESET & SFC







INGENIC SEMICONDUCTOR CO.,LTD		
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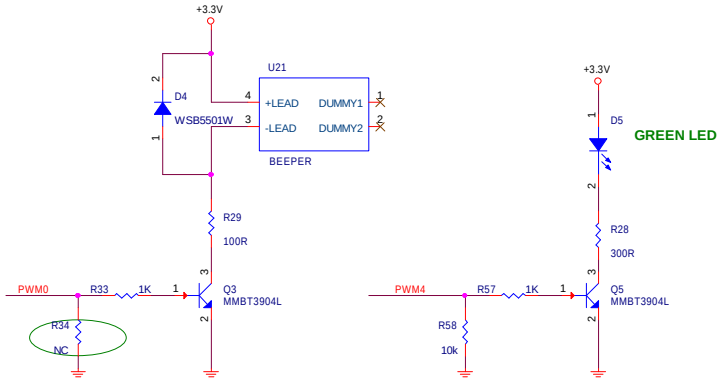
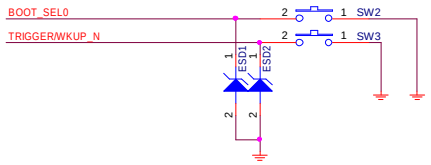
BEEPER



R34 should be added to the BEEPER circuit when PWM0 is not connected to PC25

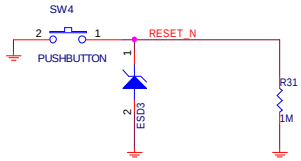
BOOT CFG & TRIGGER

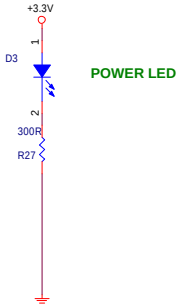


Boot Mode Select

BOOT_SEL0	BOOT FROM
HIGH	SFC Boot @ 24M(default)
LOW	**USB Boot @ 24M**

RESET & INDICATE





INGENIC SEMICONDUCTOR CO.,LTD		
Title: RD_X1500_YAK		
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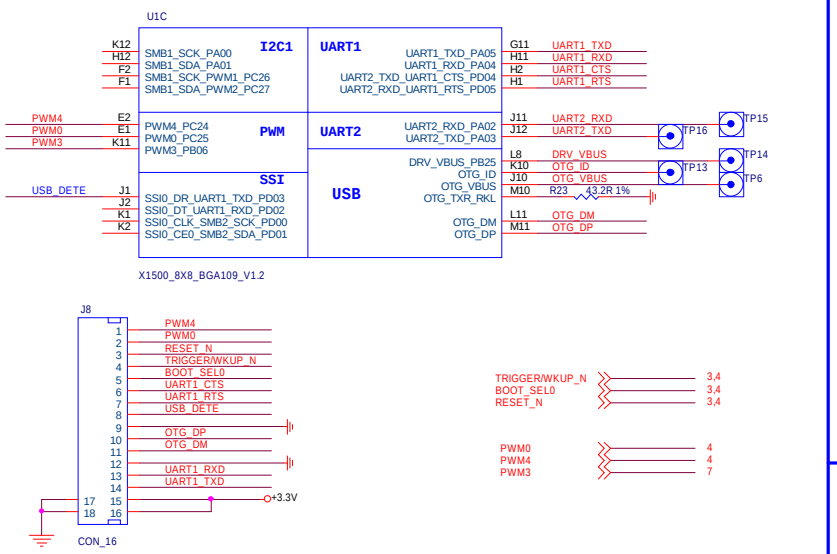
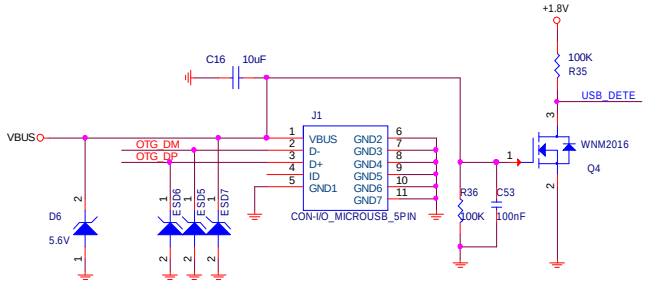
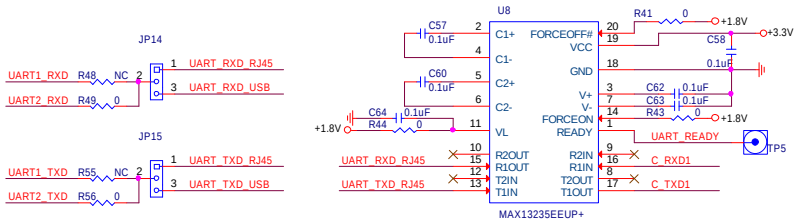
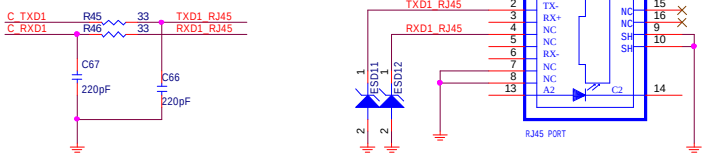


USB

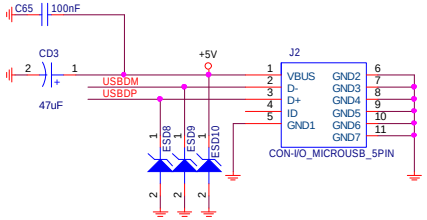


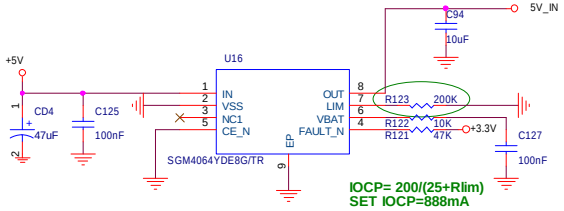
UART TO RJ45

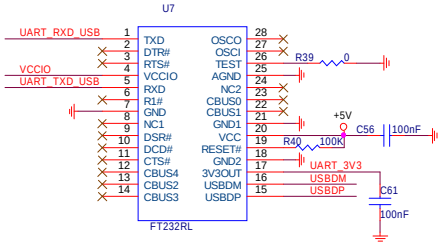


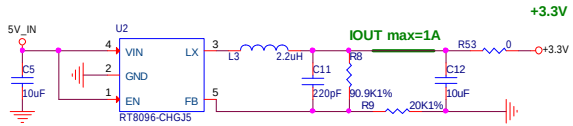


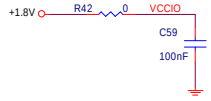
UART TO USB & POWER SUPPLY











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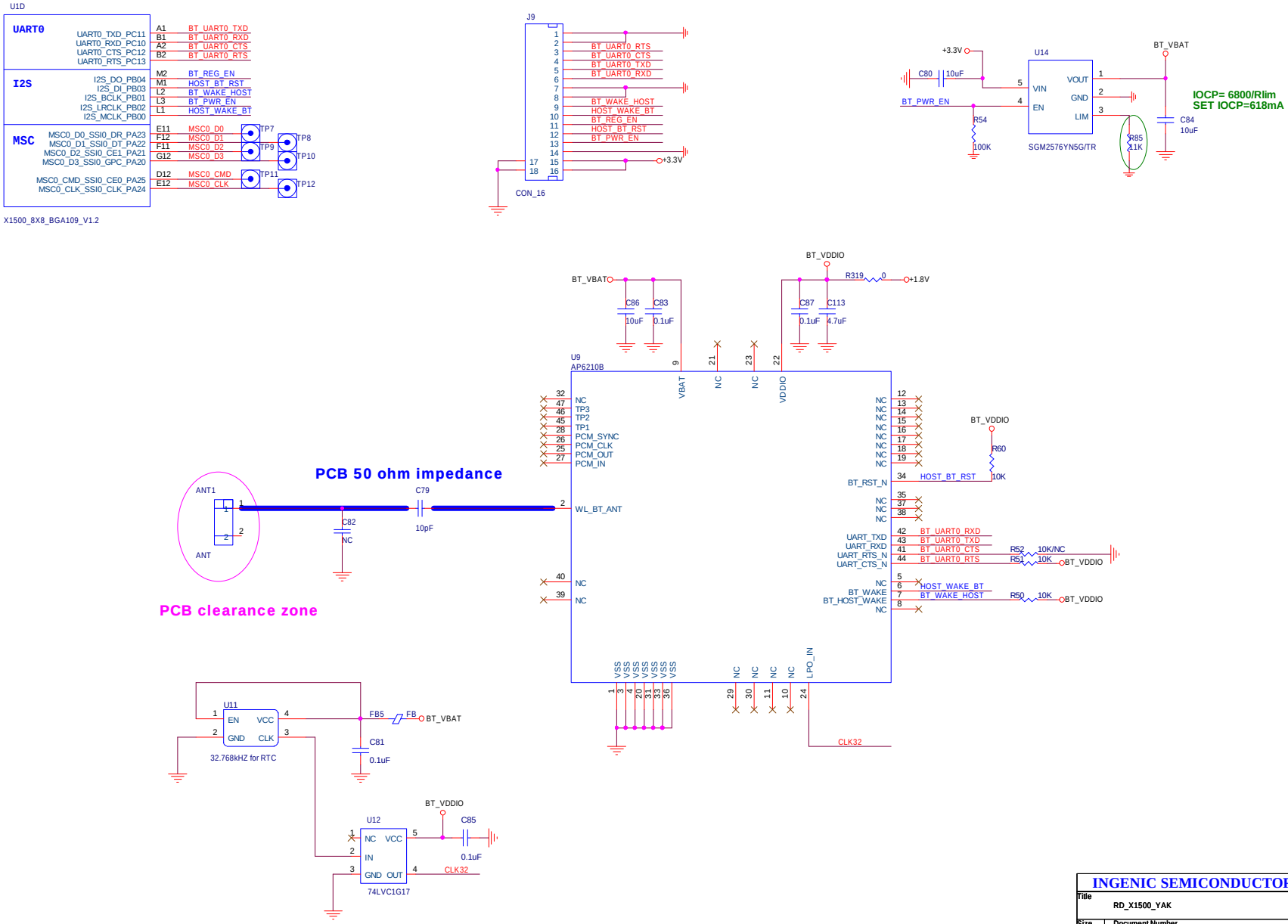
BLUETOOTH



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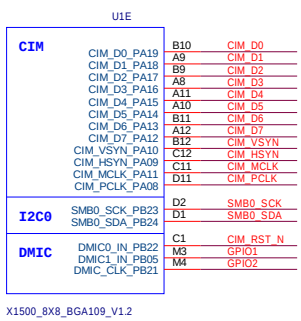
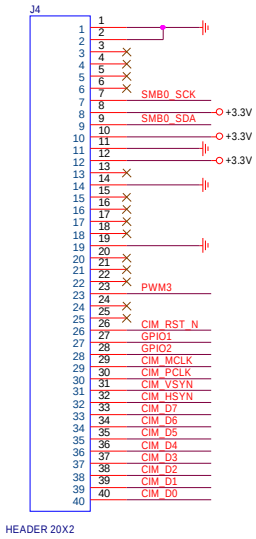
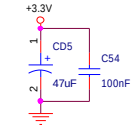
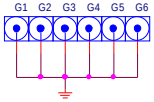
CAMERA

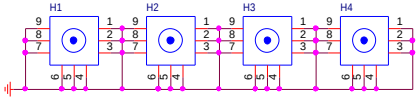






Close To Connector J4





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Data	Revision	Change
July 14 2016	Rev1.0	1. First Revision
Sep. 8 2016	Rev1.1	1. Exchange the "OTG_DM" and the "OTG_DP" on the page 5 2. Add test points TP13, TP14, TP15 and TP16 on the page 5 3. Add R48, R49, R55 and R56 resistors and select UART2 to debug on the page 5 4. Add R20 and R16 pull-up resistors on the page 7 5. Exchange the "SMB0_SCK" and the "SMB0_SDA" at the CPU side on the page 7
Sep. 8 2016	Rev1.2	1. Change the "VDDIO", "VDDIO_5T", "VL", "VCCIO", "SFC_VCC" and "BT_VDDIO" to +1.8V power supply on the page 3, 5, 6 2. Change the I/O signals' pull-up power supplys to +1.8V power supply on each paper 3. Add R61 0Ohm resistor on the page 3 4. Add R57, R58 and Q5 components to the "GREEN LED"circuit on the page 4 5. Delete R26 and D2 components from the "RESET LED" circuit on the page 4 6. Change U5's model from GD25Q127CS1G to GD25LQ128CSIG 7. Update the "POWER ARCHITECTURE" and "SYSTEM ARCHITECTUR"E on the page 1,2 9. Add U12, and C85 components to the "BLUETOOTH "circuit on the page 6
Mar. 7 2017	Rev1.2.1	1. Change the model of U19 to RT9013-18PB 2. Change R34 to NC

INGENIC SEMICONDUCTOR CO.,LTD

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