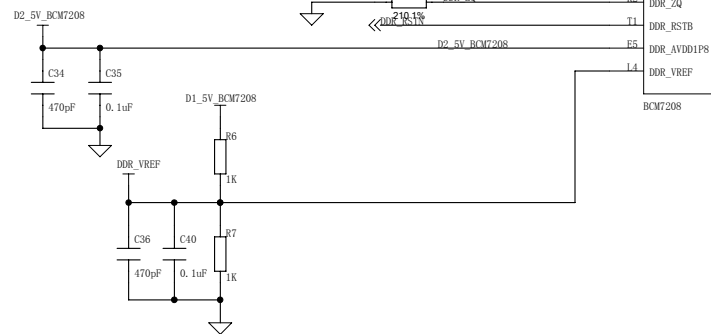
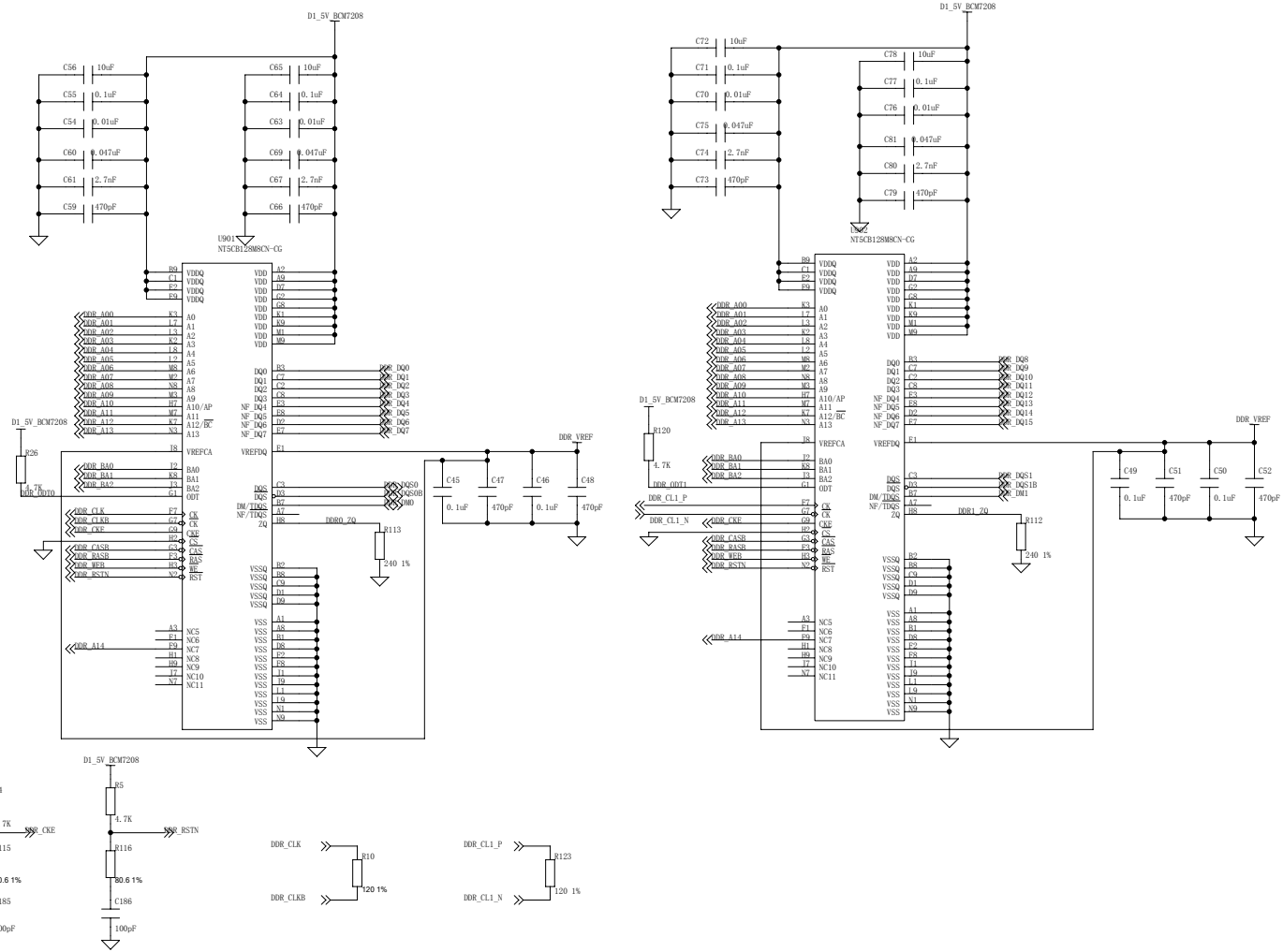


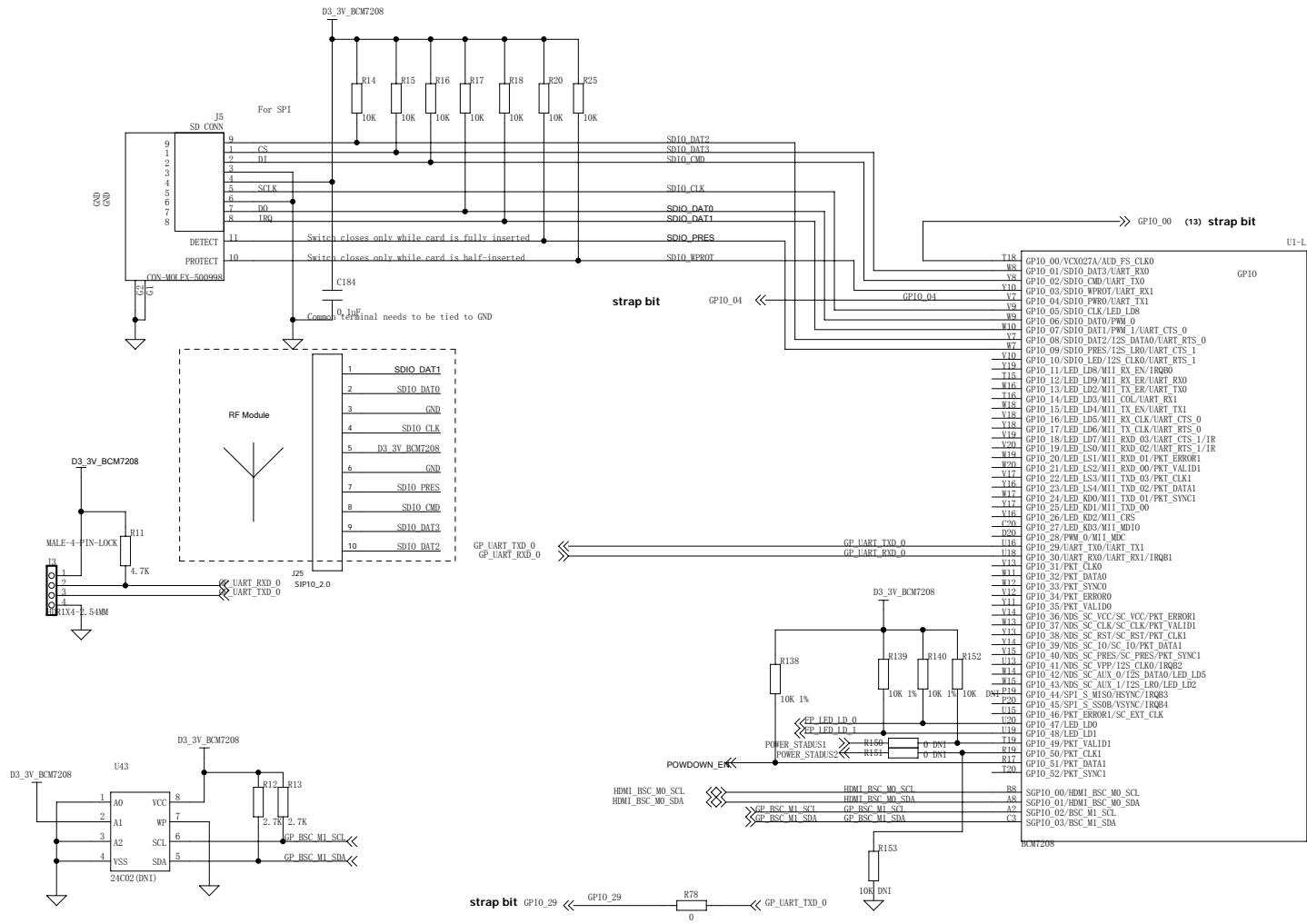
- Place these test pads close to the DDR chips.

- Place these GND test pads close to their corresponding signal test pads for probing.

<<DDR_A00	N1	DDR_A00	DDR
<<DDR_A01	M6	DDR_A01	
<<DDR_A02	P2	DDR_A02	
<<DDR_A03	P3	DDR_A03	
<<DDR_A04	M2	DDR_A04	
<<DDR_A05	R3	DDR_A05	
<<DDR_A06	N3	DDR_A06	
<<DDR_A07	T3	DDR_A07	
<<DDR_A08	P4	DDR_A08	
<<DDR_A09	R2	DDR_A09	
<<DDR_A10	R5	DDR_A10	
<<DDR_A11	T4	DDR_A11	
<<DDR_A12	K1	DDR_A12	
<<DDR_A13	T2	DDR_A13	
<<DDR_A14	L5	DDR_A14	
<<DDR_BA0	P5	DDR_BA0	
<<DDR_BA1	L2	DDR_BA1	
<<DDR_BA2	N2	DDR_BA2	
<<DDR_DQ0	E4	DDR_DQ00	
<<DDR_DQ1	H4	DDR_DQ01	
<<DDR_DQ2	D3	DDR_DQ02	
<<DDR_DQ3	H5	DDR_DQ03	
<<DDR_DQ4	C2	DDR_DQ04	
<<DDR_DQ5	J5	DDR_DQ05	
<<DDR_DQ6	D2	DDR_DQ06	
<<DDR_DQ7	L3	DDR_DQ07	
<<DDR_DQ8	E2	DDR_DQ08	
<<DDR_DQ9	G1	DDR_DQ09	
<<DDR_DQ10	E3	DDR_DQ10	
<<DDR_DQ11	G2	DDR_DQ11	
<<DDR_DQ12	C1	DDR_DQ12	
<<DDR_DQ13	H2	DDR_DQ13	
<<DDR_DQ14	D1	DDR_DQ14	
<<DDR_DQ15	H3	DDR_DQ15	
<<DDR_DQS0	G4	DDR_DQS0	
<<DDR_DQS0B	G5	DDR_DQS0B	
<<DDR_DQS1	E3	DDR_DQS1	
<<DDR_DQS1B	P2	DDR_DQS1B	
<<DDR_DMO	F5	DDR_DMO	
<<DDR_DM1	G3	DDR_DM1	
<<DDR_RASB	N4	DDR_RASB	
<<DDR_CASB	M6	DDR_CASB	
<<DDR_WEB	N5	DDR_WEB	
<<DDR_CLK	J2	DDR_CLK	
<<DDR_CLKB	K3	DDR_CLKB	
<<DDR_CKE	L3	DDR_CKE	
<<DDR_ODT	L5	DDR_ODT	
TP1		DDR_ZQ	
R3		DDR_ZQ	
<<DDR_RSTN	T1	DDR_RSTB	
D2_5V_BCM7208	E5	DDR_AVDD1P8	
	L4	DDR_VREF	

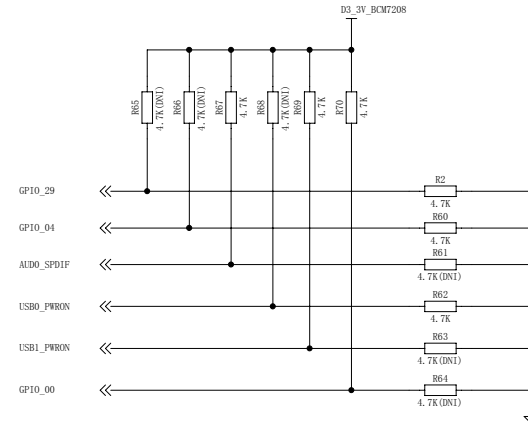
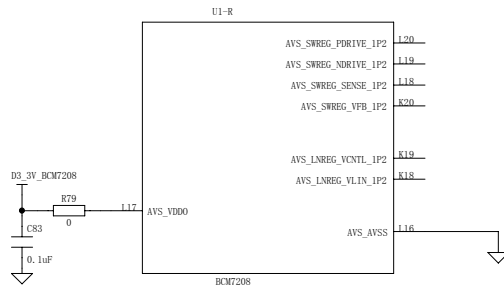


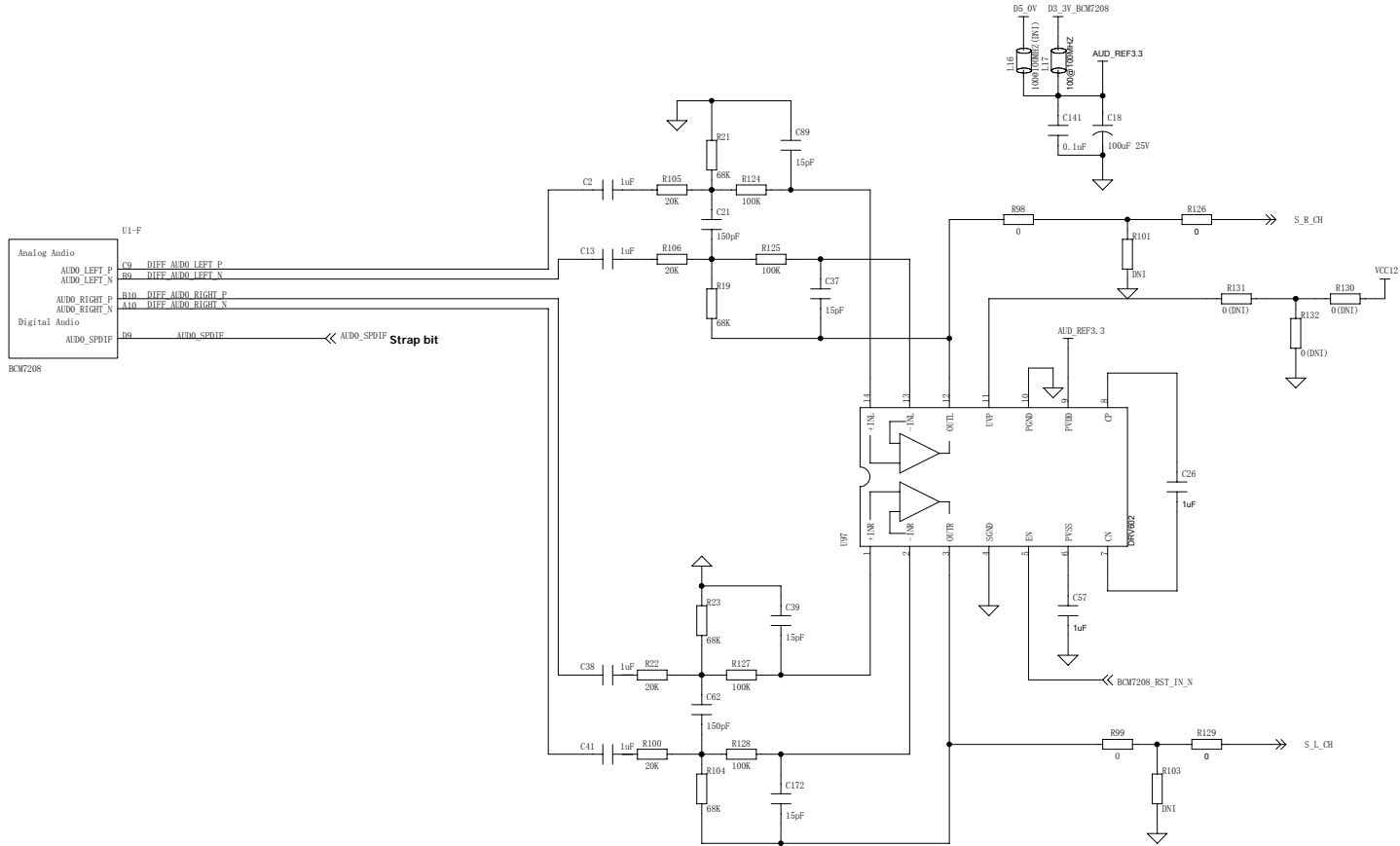


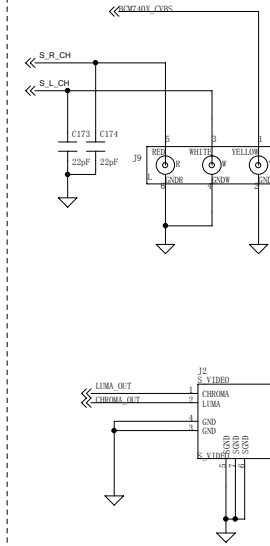
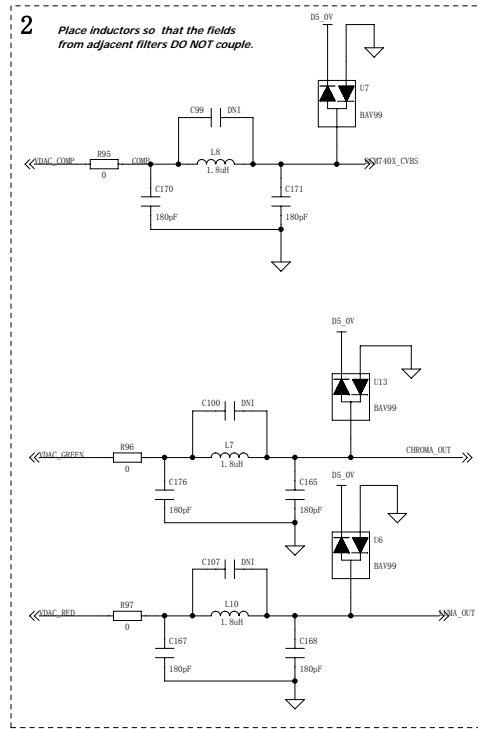
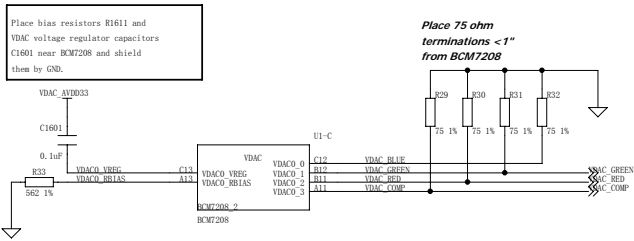


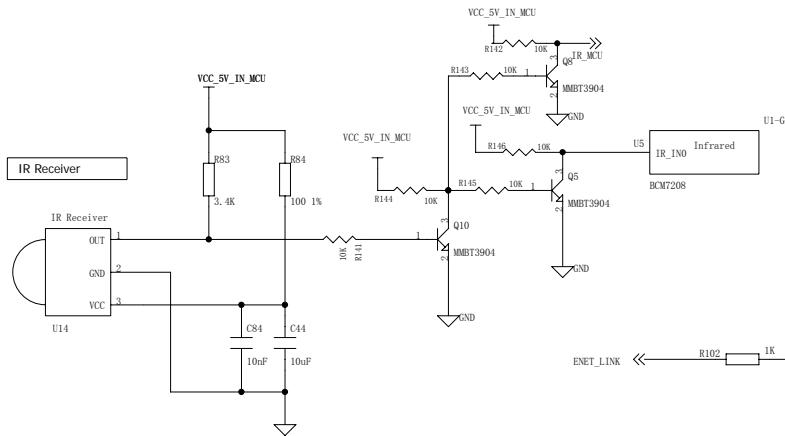
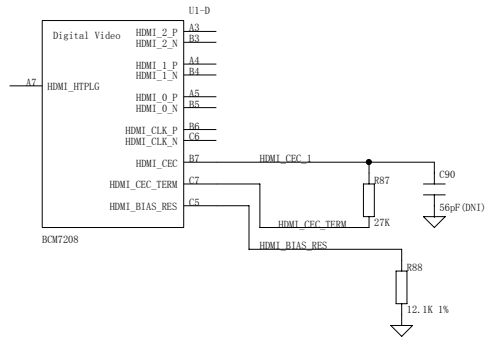
BCM7208 Strap Options

Strap Name	Strap Bit	Description	Pin	Default	Comments	Part No
Flash_Type	strap_boot_device(2)	0: NAND + 1-bit Hamming 1: NAND + 4-bit BCH #16B-spare 2: NAND + 8-bit BCH #16B-spare	GPI0_29 H	1	TBD	001 For 512Mbit NAND Flash
	strap_boot_device(1)	3: NAND + 8-bit BCH #27B-spare 4: NAND + 12-bit BCH #27B-spare	GPI0_04	0		
	strap_boot_device(0)	5: SPI-NOR 1-lane 6: SPI-NOR 2-lane 7: SPI-NOR 2-lane +fast-clock	AUDIO_SPDIF L	1		
MIPS_Endian	strap_system_big_endian	0: System is LITTLE endian 1: System is BIG endian	USBO_PWRON	0	Per system configuration	0
XTAL_Adj	strap_xtal_adj	00: fundamental mode crystals 10: overtone mode crystals	USB1_PWRON	0	Per system configuration	1
XTAL_Highpass	strap_xtal_highpass	0: 1: 54MHz xtal frequency	GPI0_00	1	default=1(for 54MHz xtal frequency)	1

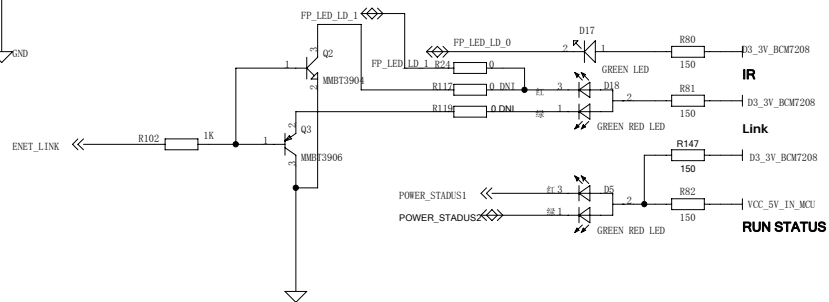


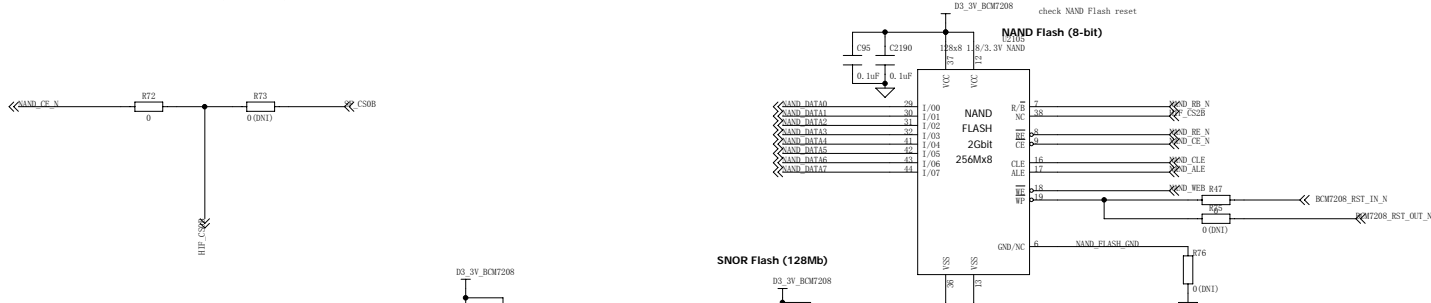
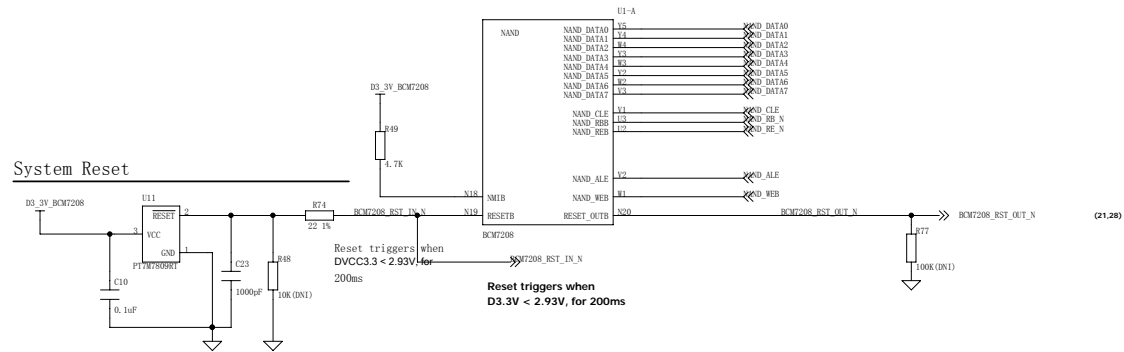






FRONT PANEL LEDs

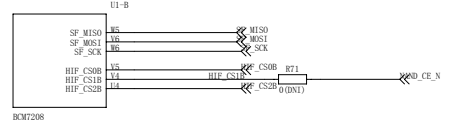
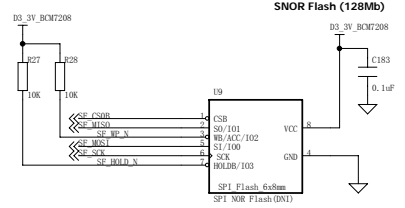


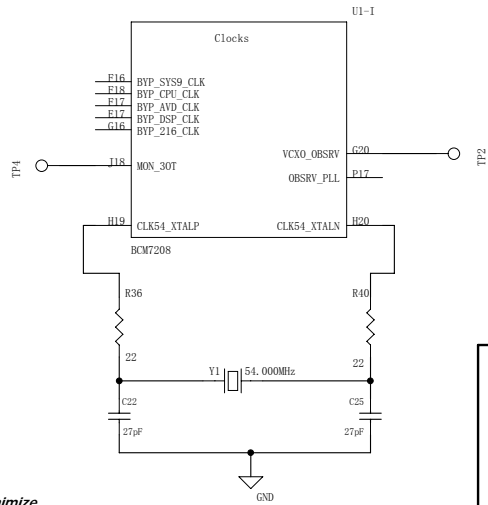


Flash Selection Options:

Flash CS	J2101
SNOR Flash U2103: CS0	Short 1-2
NAND Flash U2105: CS1 (Default)	
SNOR Flash U2103: Not used	Short 2-3
NAND Flash U2105: CS0 (Uninstall R2191)	

(Boot from NOR)

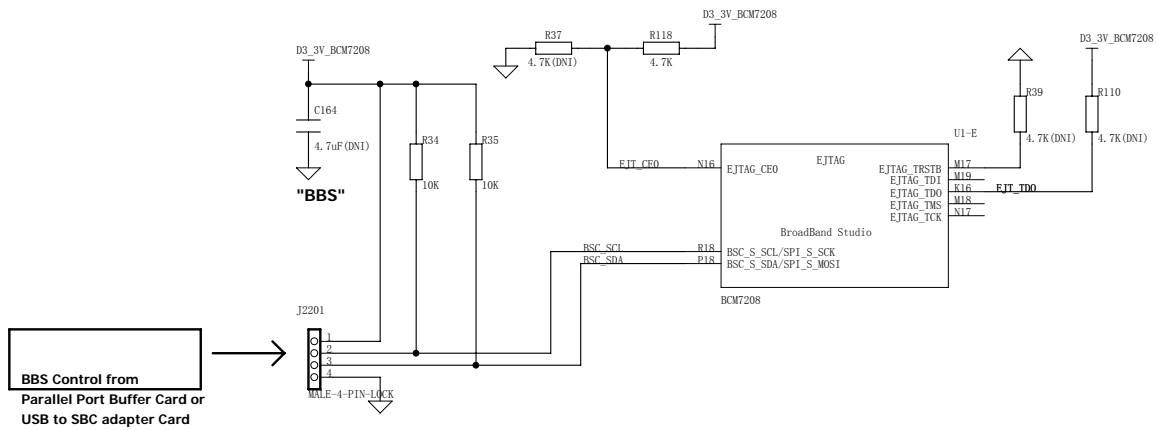




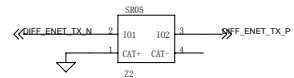
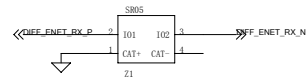
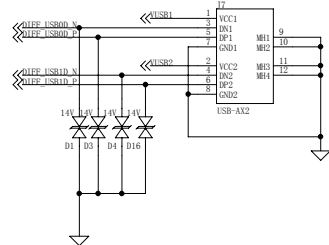
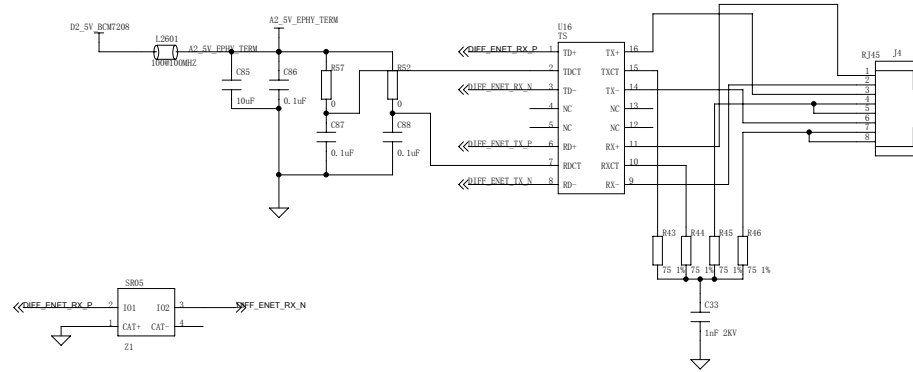
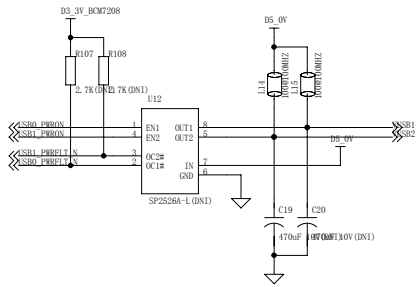
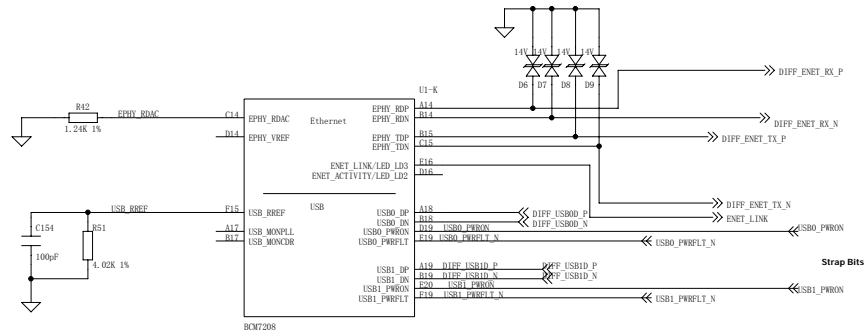
7208 Required xtal Specifications (Y2201):

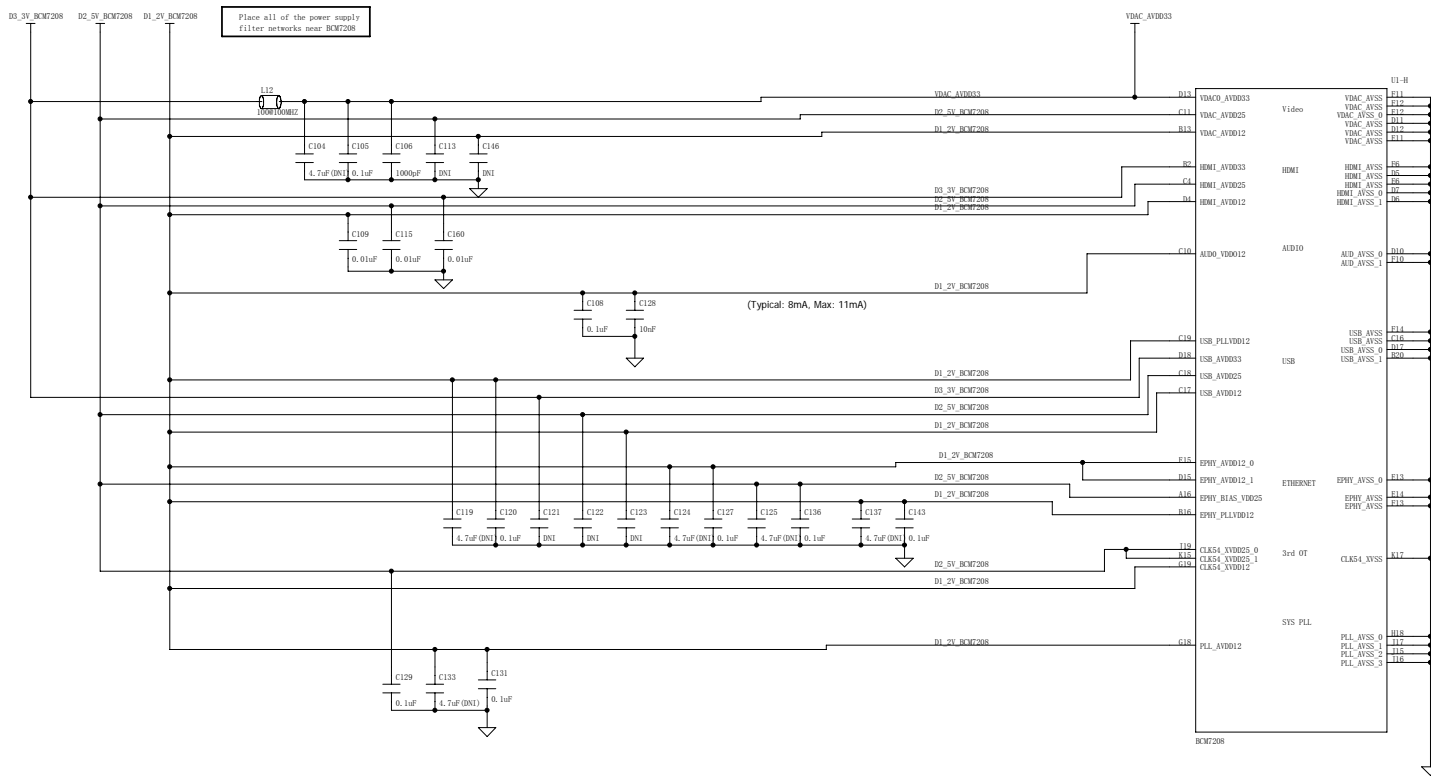
- Fundamental at 54.000000 MHz
- Load capacitance: 12.0 pF;
- ESR: 15 Ohms Max.;
- Tolerance: +/- 15 ppm;
- Stability: +/- 25 ppm;
- Aging: +/- 5 ppm first year;
- CD: 3pF max.;
- Drive level: can support up to 350uW.

Place DNI 0's to minimize stubs on 30T_XTAL nets

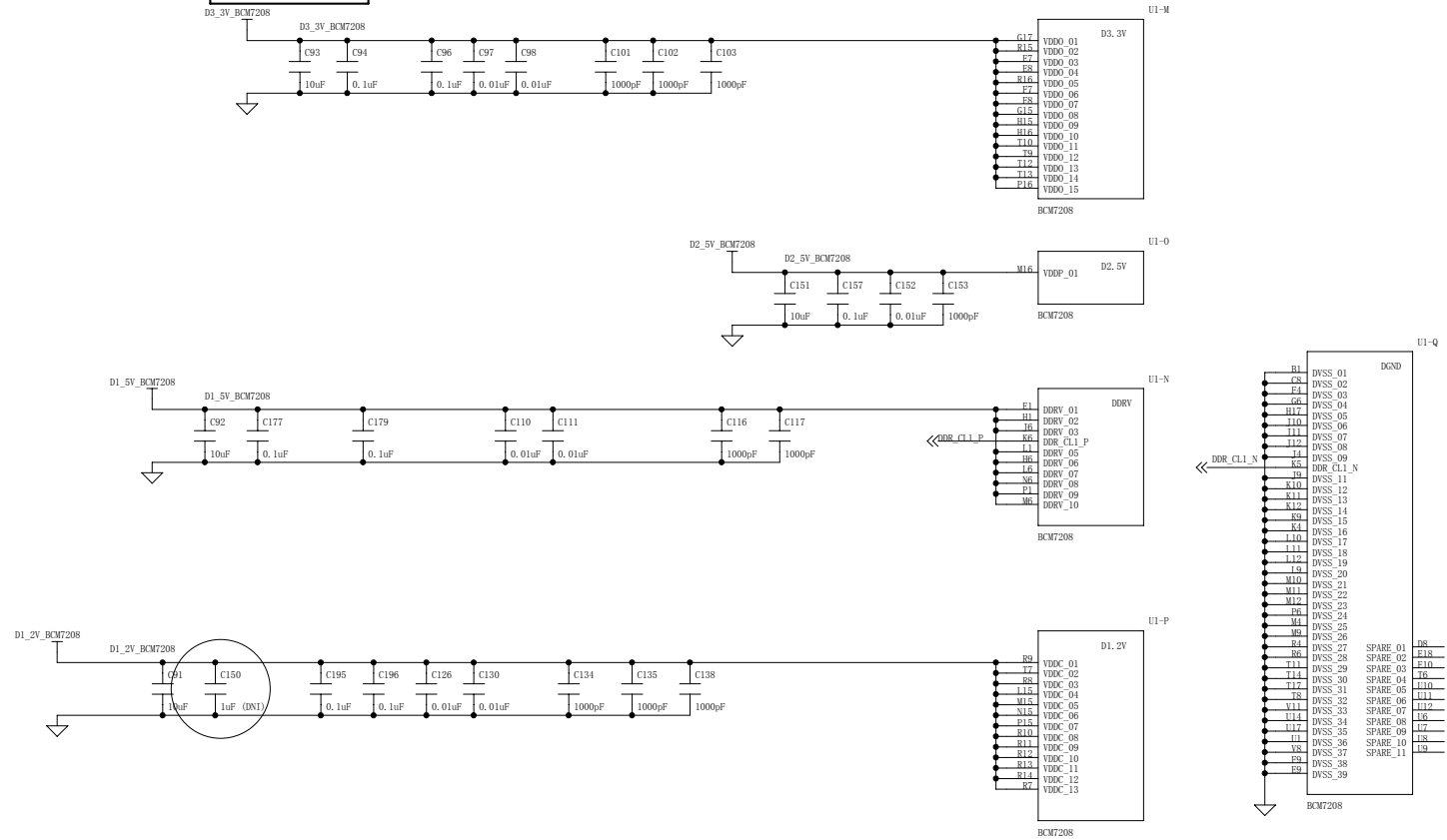


BBS Control from
Parallel Port Buffer Card or
USB to SBC adapter Card

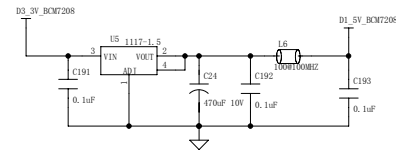
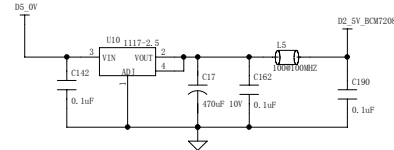
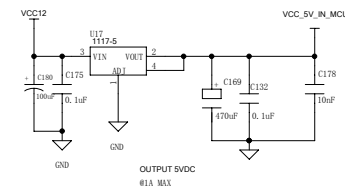
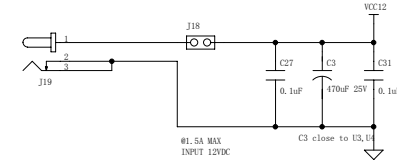
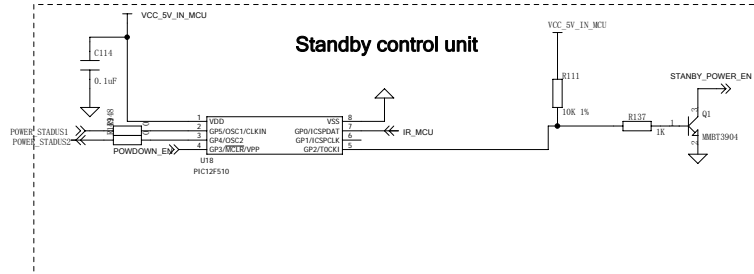
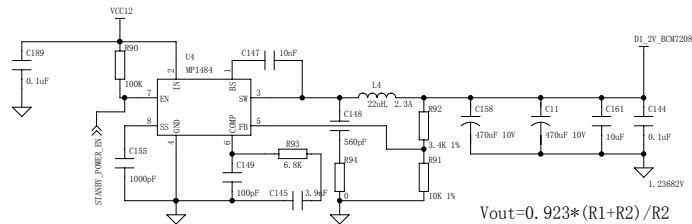
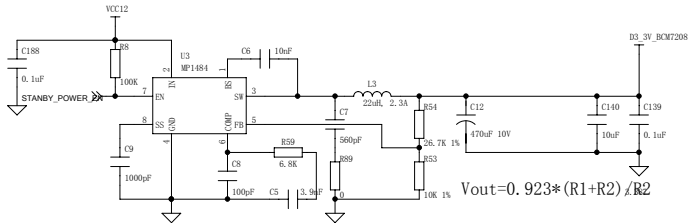
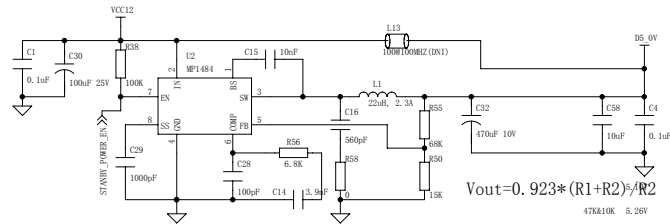


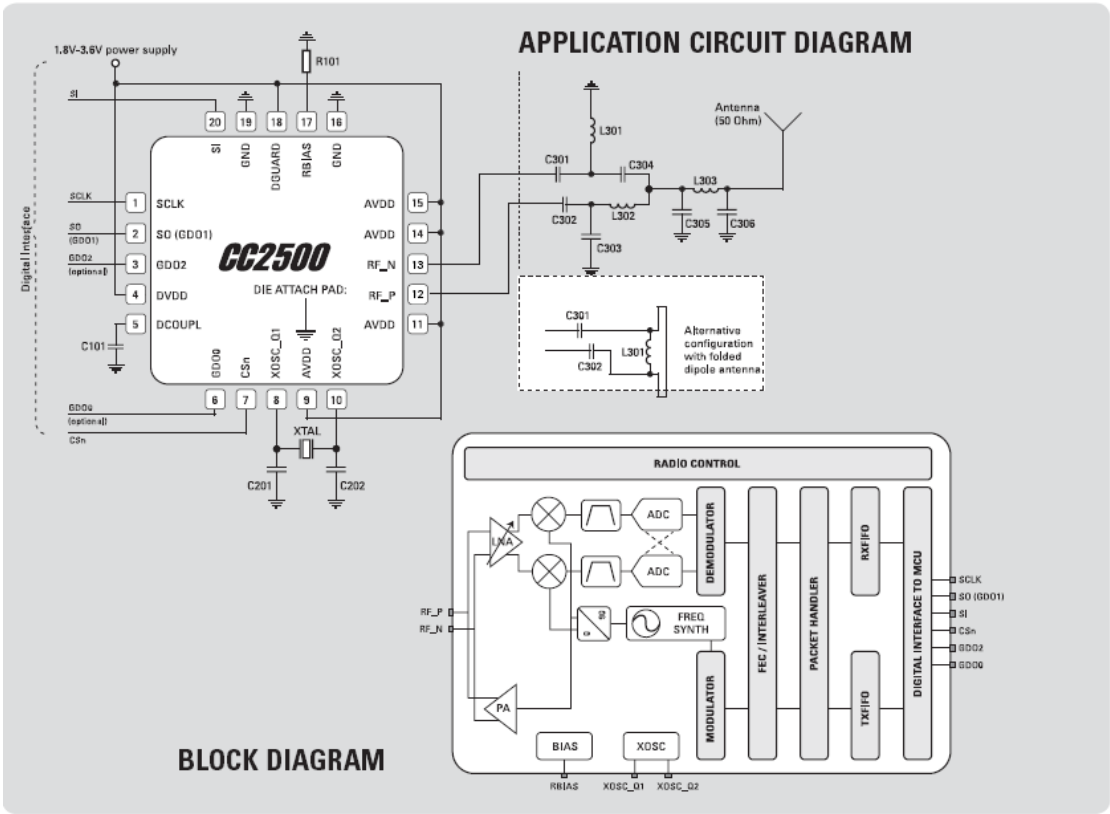


Place all of the decoupling capacitors near BCM7208



power up sequeuse have not be adjust,maybe 3.3V need adjust slowly





BLOCK DIAGRAM

