

BB SCHEMETIC

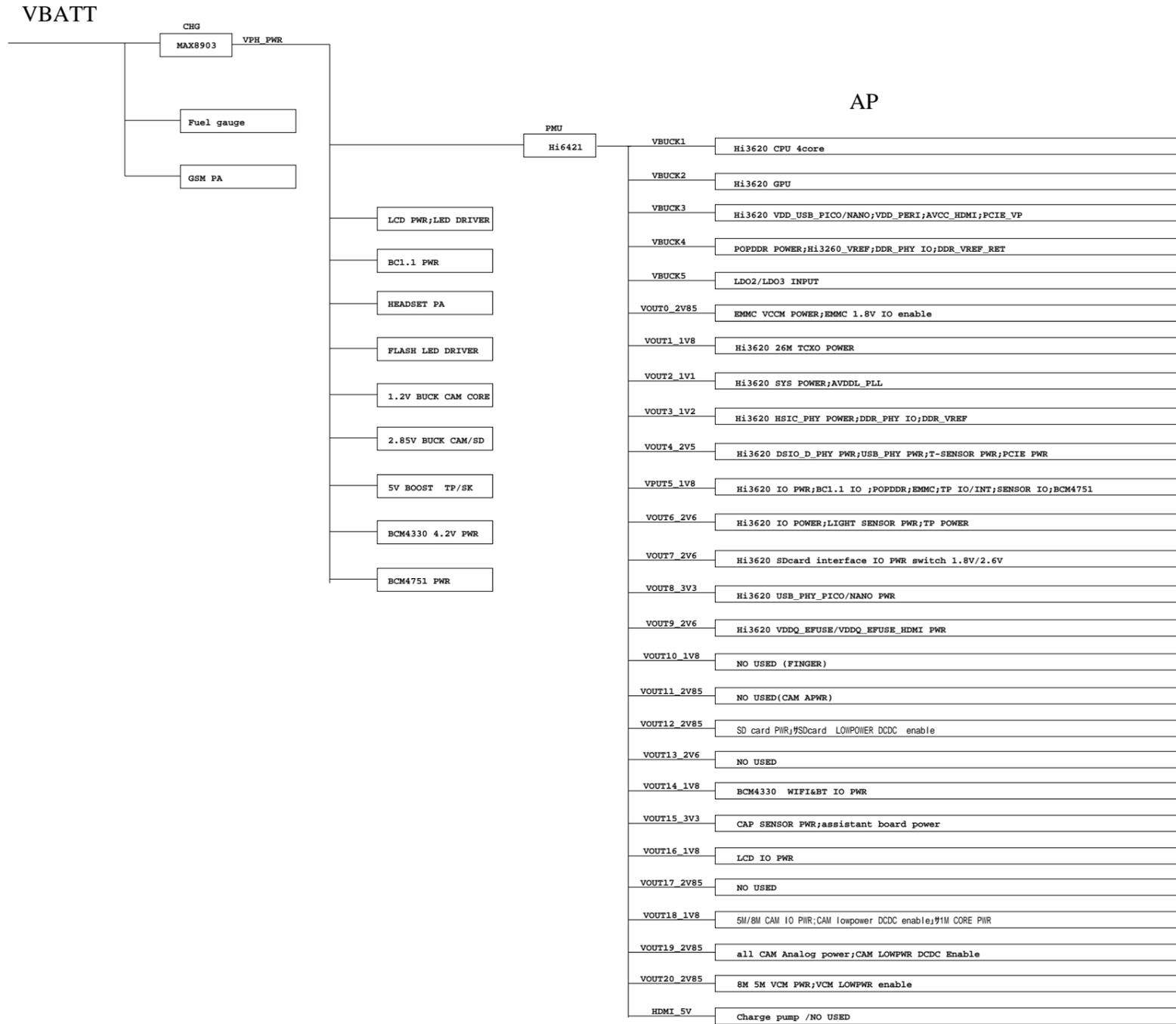
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The type and specification of the components refer to the BOM

				NA	2011-11-30
				ECA NO	DATE
DESIGNED	YANGYONGXIANG 00171286	SH2101UM		03021NWX_SCH1ZH	
REVIEWED	YANGWENTAO 00181297				
		VER	PART_NUMBER	SHEET 1 OF 28	
		A	03021NWX	HUAWEI TECH CO.,LTD.	

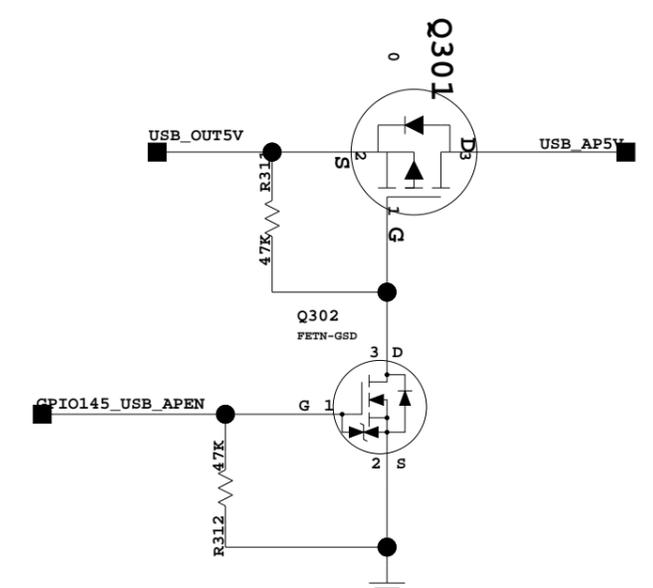
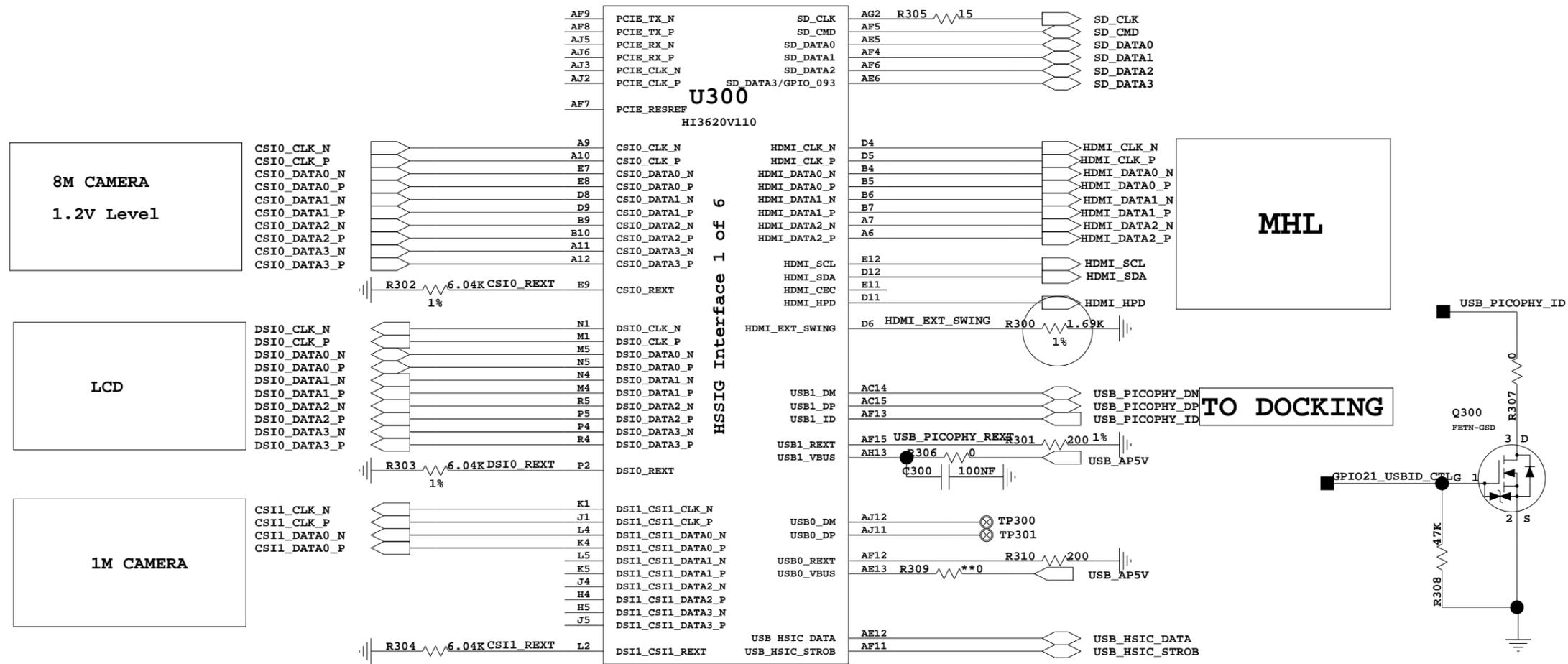
2.Power Tree



The type and specification of the components refer to the BOM

				NA	2011-11-30
				ECA NO	DATE
DESIGNED	SUNQIAODAN KF39018	SH2101UM		03021NWX_SCH1ZH	
REVIEWED	YANXUXING 00166792				
		VER	PART_NUMBER	SHEET 2 OF 28	
		A	03021NWX	HUAWAI TECH CO.,LTD.	

3. Hi3620



Hi3620v100 high speed siganl

The type and specification of the components refer to the BOM

				NA	2011-11-30
				ECA NO	DATE
DESIGNED	YANGWENTAO 00181297		SH2101UM		03021NWX_SCH1ZH
REVIEWED	YANGYONGXIANG 00171286				
	VER	PART_NUMBER	SHEET 3 OF 28		
	A	03021NWX	HUAWAI TECH CO.,LTD.		

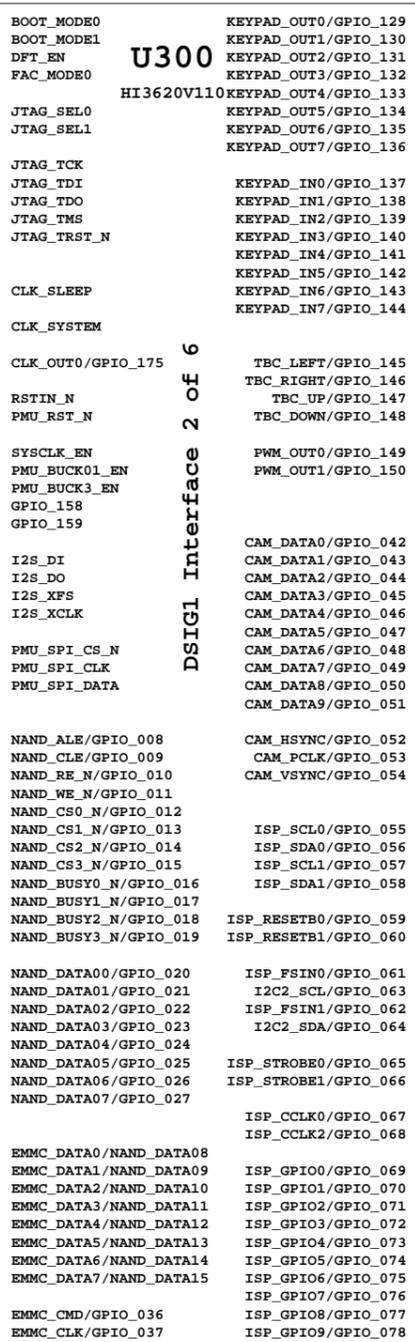
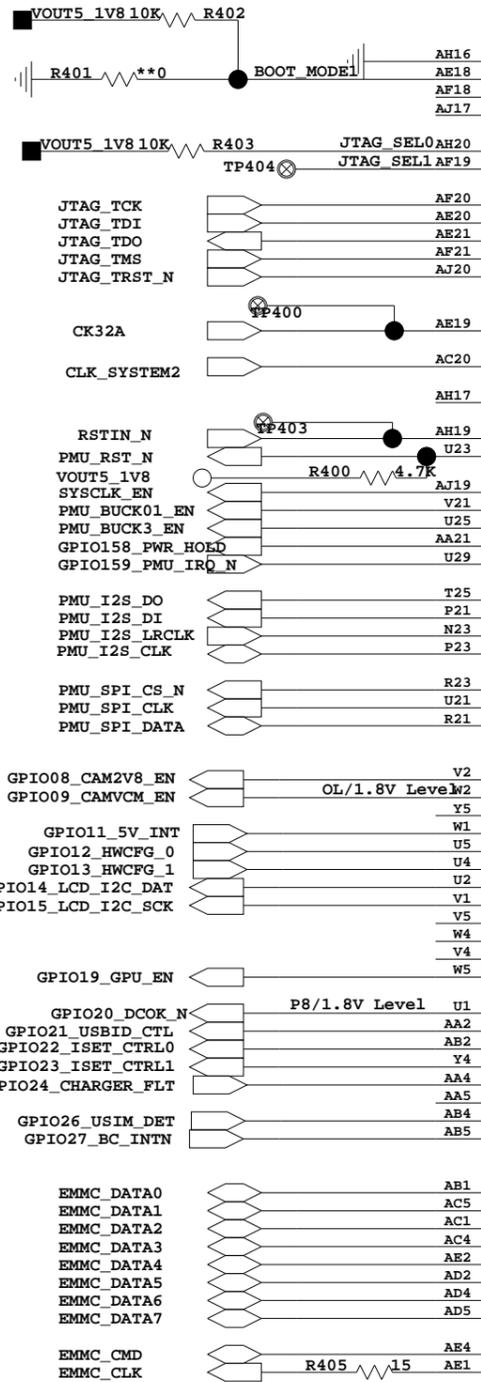
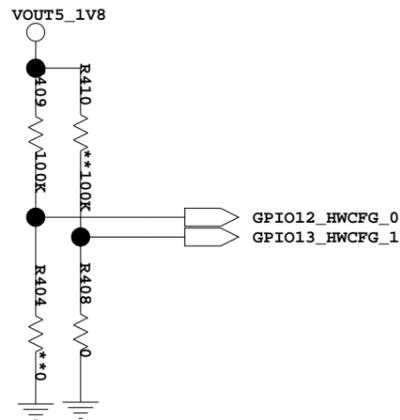
4. Hi3620

JTAG Selection setting

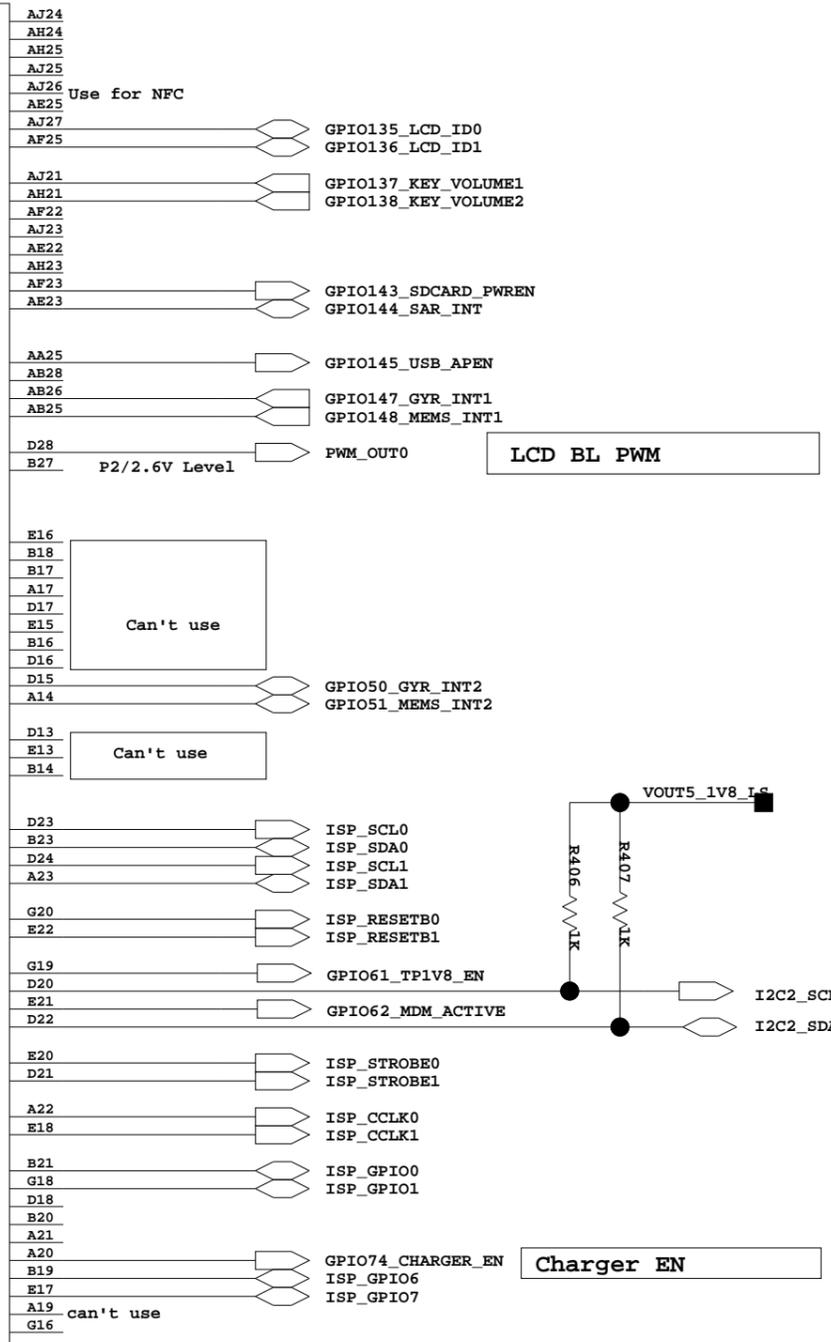
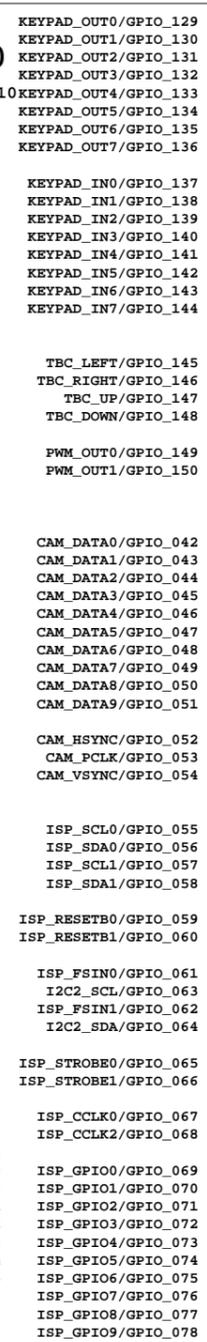
SEL0 (ISU)	SEL1 (ISD)	FUNCTION
0	0	SOC TAP
1	0	ARM COTEX A9
0	1	DAISY CHAIN
1	1	ARM TAP

Boot Mode Configuration

BOOT0 (ICU)	BOOT1 (ICU)	FUNCTION
0	0	Bootrom start-load
1	0	Bootrom start-nand start
0	1	Bootrom start-EMMC start
1	1	EX-nand start



DSIG1 Interface 2 of 6

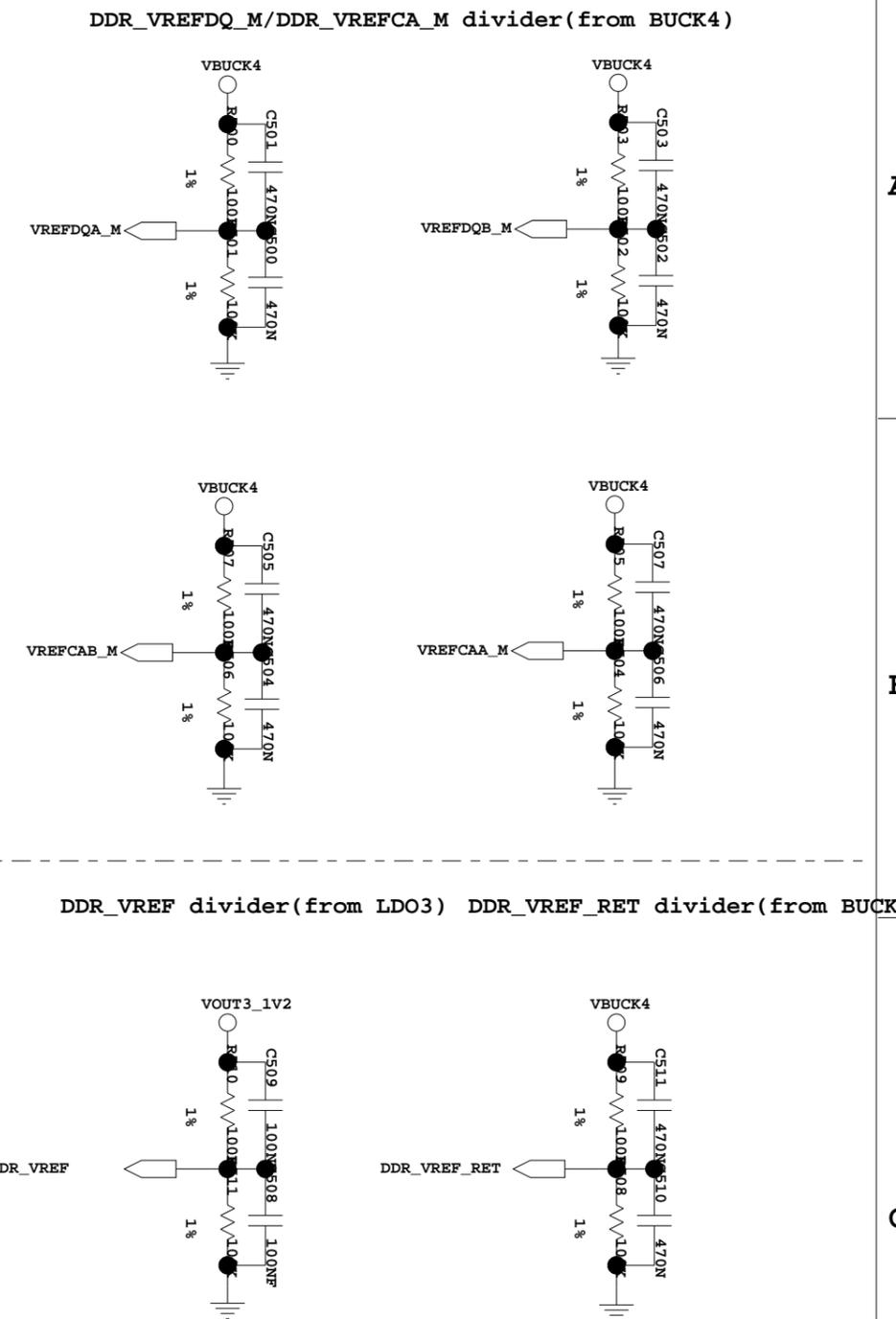
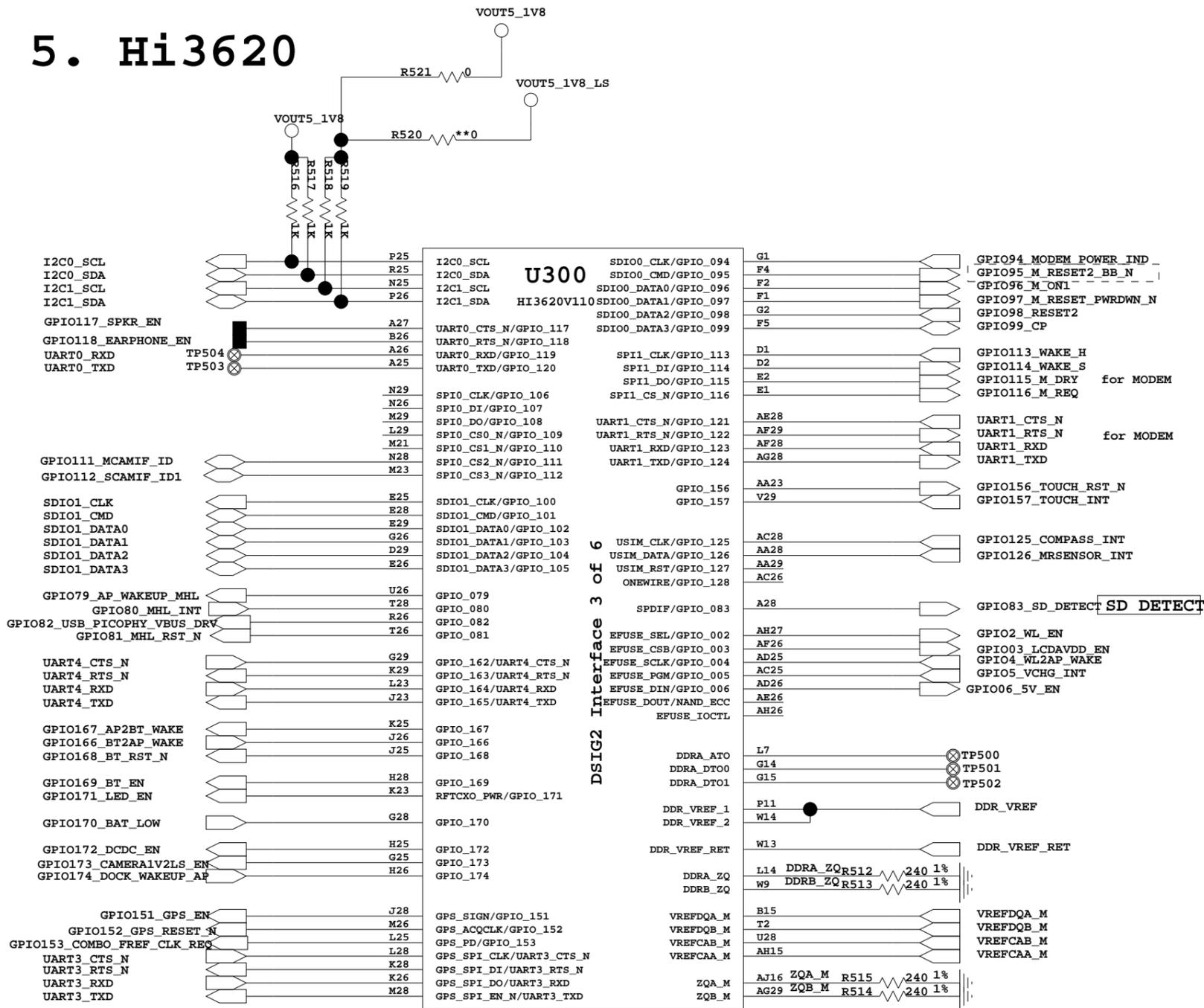


Hi3620v100 digital siganl 1

The type and specification of the components refer to the BOM

				NA	2011-11-30
				ECA NO	DATE
DESIGNED	YANGWENTAO 00181297			03021NWX_SCH1ZH	
REVIEWED	YANGYONGXIANG 00171286			SH2101UM	
		VER	PART_NUMBER	SHEET 4 OF 28	
		A	03021NWX	HUAWEI TECH CO.,LTD.	

5. Hi3620

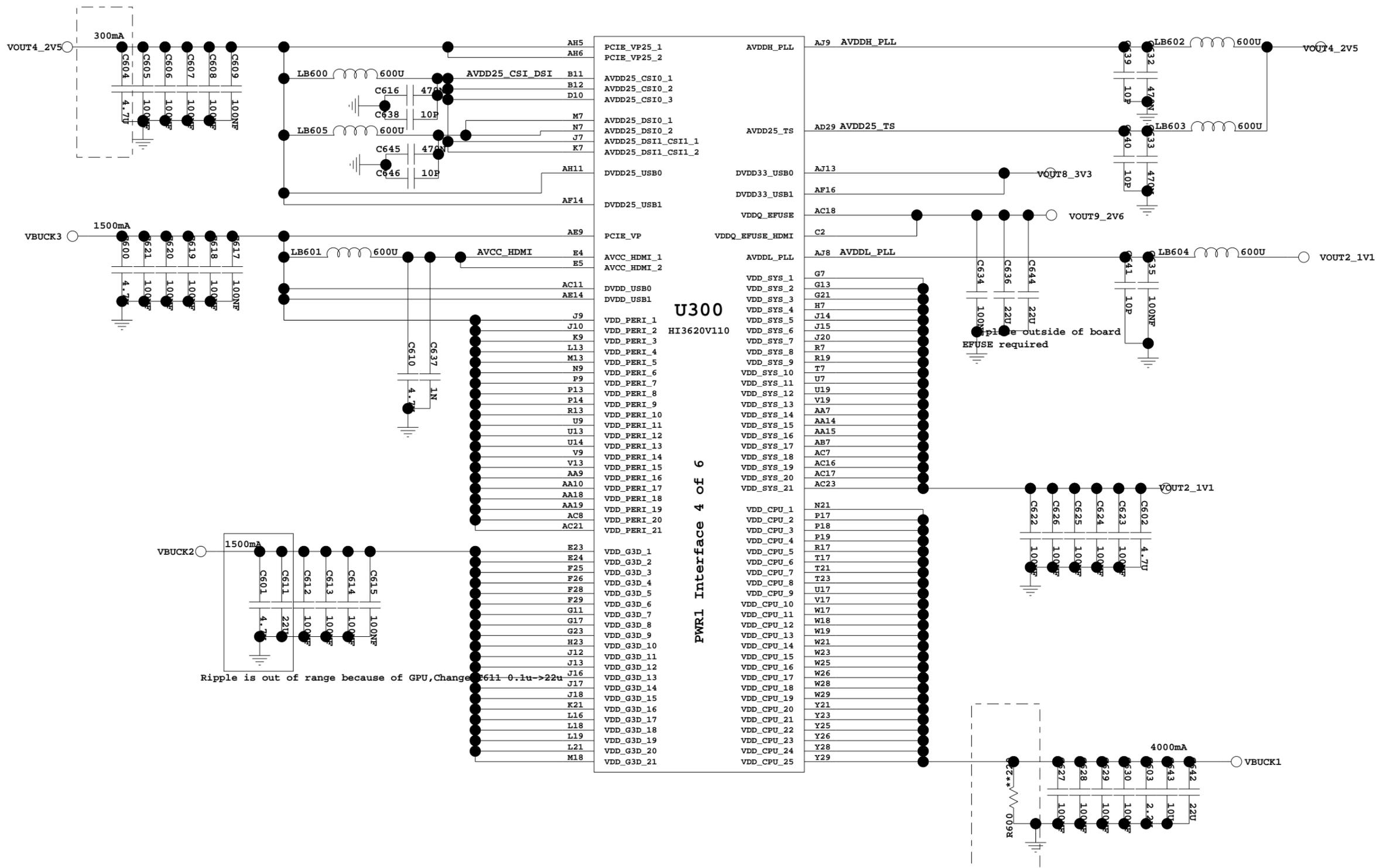


Hi3620v100 digital signal 2

The type and specification of the components refer to the BOM

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				ECA NO	DATE
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REVIEWED	YANGYONGXIANG 00171286				
		VER	PART_NUMBER	SHEET 5 OF 28	
		A	03021NWX	HUAWAI TECH CO.,LTD.	

6. Hi3620

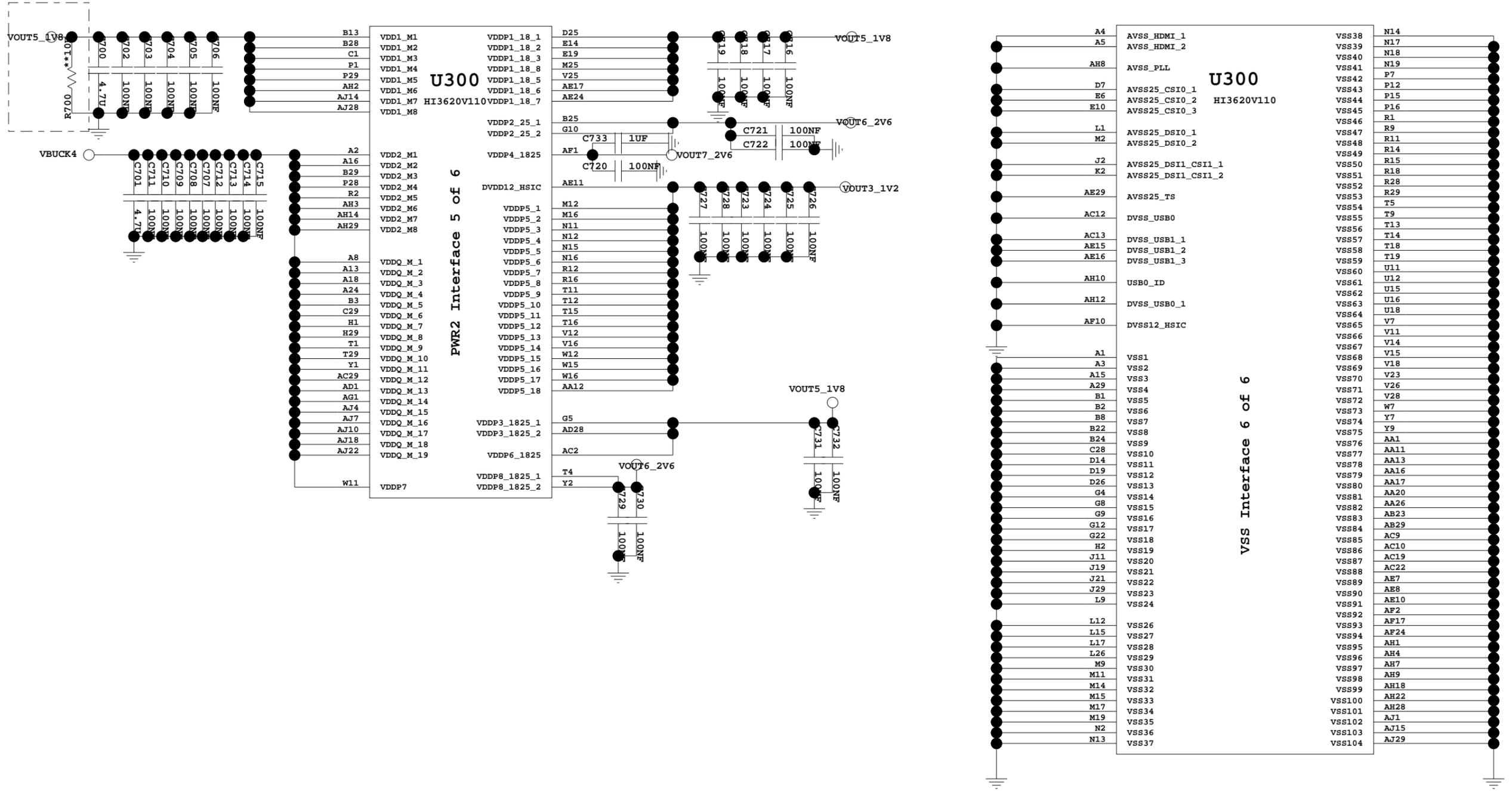


Hi3620v100 power&Decouple1

The type and specification of the components refer to the BOM

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				ECA NO	DATE
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REVIEWED	YANGYONGXIANG 00171286				
		VER	PART_NUMBER	SHEET 6 OF 28	
		A	03021NWX	HUAWAI TECH CO.,LTD.	

7. Hi3620

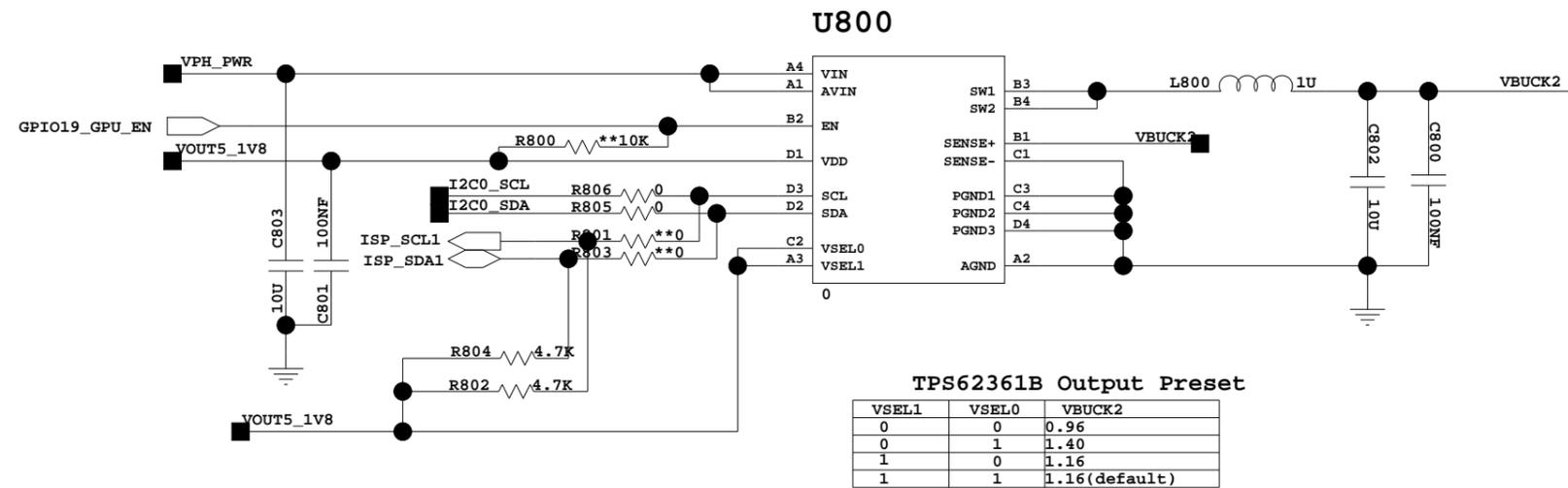


Hi3620v100 power&Decouple2

The type and specification of the components refer to the BOM

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				ECA NO	DATE
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REVIEWED	YANGYONGXIANG 00171286				
		VER	PART_NUMBER	SHEET 7 OF 28	
		A	03021NWX	HUAWEI TECH CO.,LTD.	

8.GPU Power



NAND Memory Int

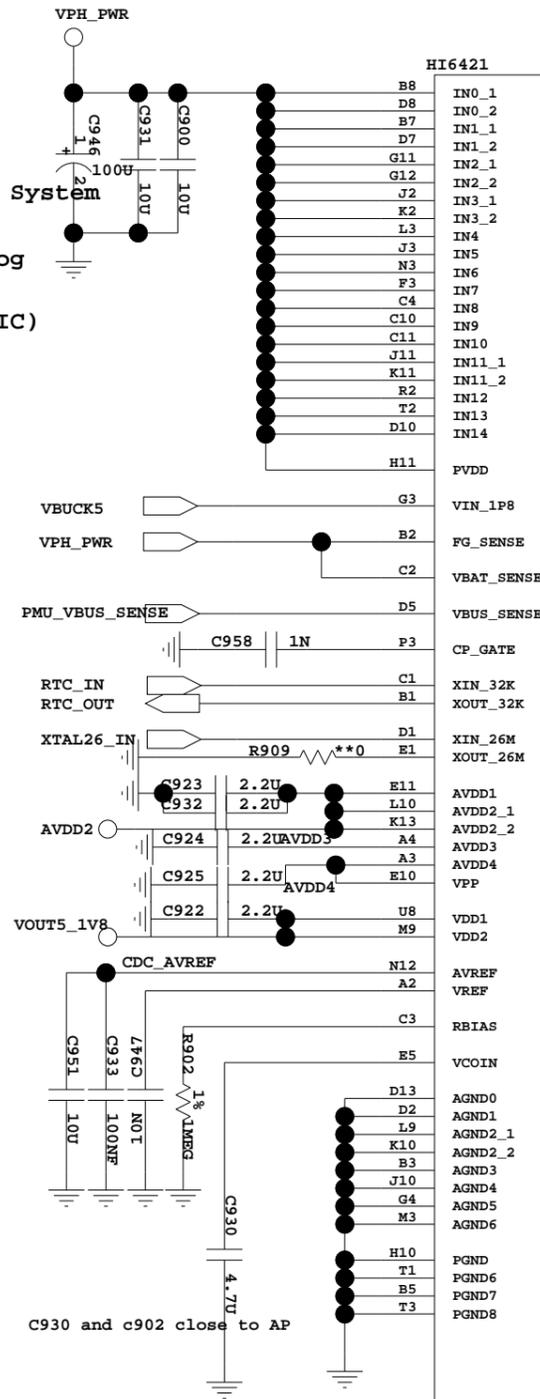
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REVIEWED	YANGYONGXIANG 00171286	VER	PART_NUMBER	SHEET 8 OF 28	
		A	03021NWX	HUAWAI TECH CO.,LTD.	

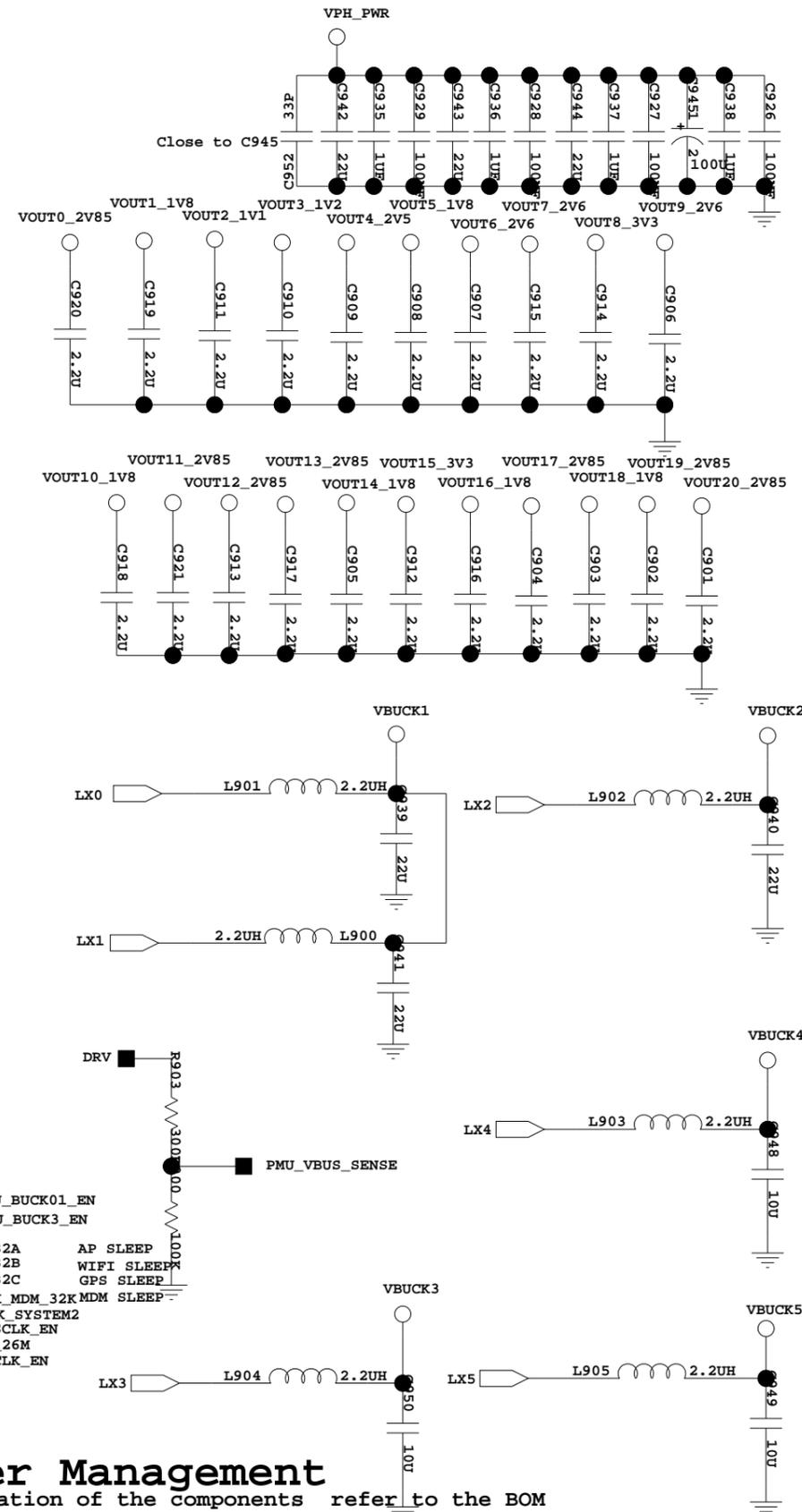
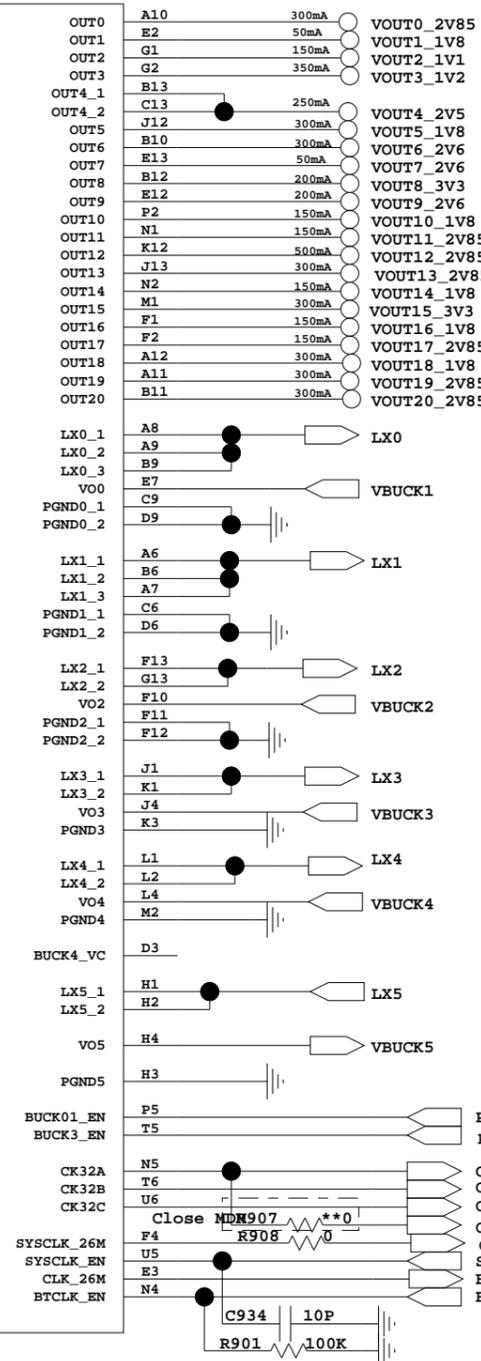
9.Hi6421 Power Management

Power Management Table

Name	Voltage	Current	Function
VOUT0	2.85V	300mA	MLC NAND/eMMC
VOUT1	1.8V	50mA	26M Oscillator
VOUT2	1.1V	150mA	
VOUT3	1.2V	350mA	SYS.+BT DIG.+PLL DIG.+SOC System DDR PHY + HSIC PHY
VOUT4	2.5V	250mA	MIPI+USB2.0+PCIe+PLL Analog
VOUT5	1.8V	300mA	Hi3620 1.8V I/O(BT&GPS RFIC)
VOUT6	2.6V	300mA	Hi3620 2.6V I/O
VOUT7	2.6V	50mA	Hi3620 SD I/O
VOUT8	3.3V	200mA	USB PHY
VOUT9	2.6V	200mA	Efuse Power
VOUT10	1.8V	150mA	BT RF&PA
VOUT11	2.85V	150mA	GPS RF&PA
VOUT12	2.85V	500mA	SD Card
VOUT13	2.85V	300mA	CMMB
VOUT14	1.8V	150mA	WIFI I/O
VOUT15	3.3V	300mA	WIFI Core&PA
VOUT16	1.8V	150mA	LCD I/O
VOUT17	2.85V	150mA	LCD Analog
VOUT18	1.8V	300mA	Camera I/O
VOUT19	2.85V	300mA	LCD Camera Analog
VOUT20	2.85V	300mA	LCD Camera VCM
VBUCK1	1.1V	4000mA	A9 Core
VBUCK2	1.1V	1400mA	GPU
VBUCK3	1.1V	1100mA	Peripheral
VBUCK4	1.2/1.8V	800mA	LPDDR2/AP IO
	1.8V	500mA	Low Voltage LDO



U900
PWR Interface 2 of 2



Hi6421 Power Management

The type and specification of the components refer to the BOM

DESIGNED	YANGWENTAO 00181297	SH2101UM	03021NWX_SCH1ZH
REVIEWED	YANGYONGXIANG 00171286		
		VER	PART_NUMBER
		A	03021NWX
			SHEET 9 OF 28
			HUAWEI TECH CO.,LTD.

NA 2011-11-30
ECA NO DATE

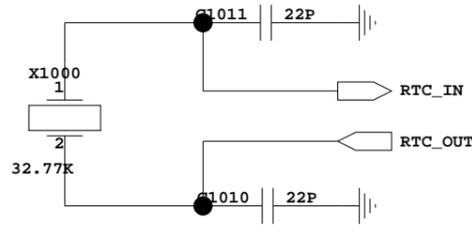
03021NWX_SCH1ZH

SHEET 9 OF 28

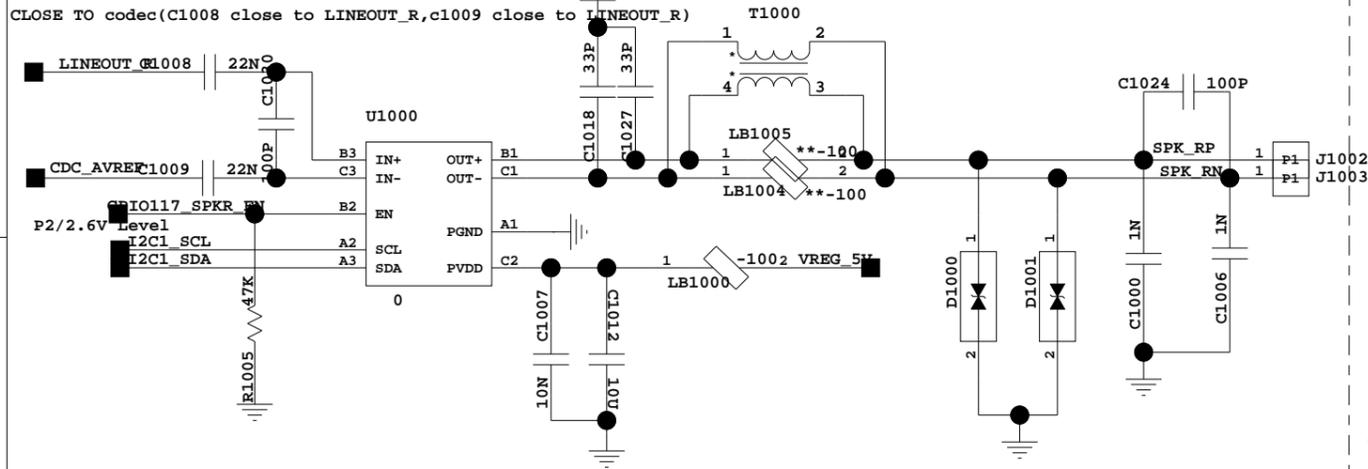
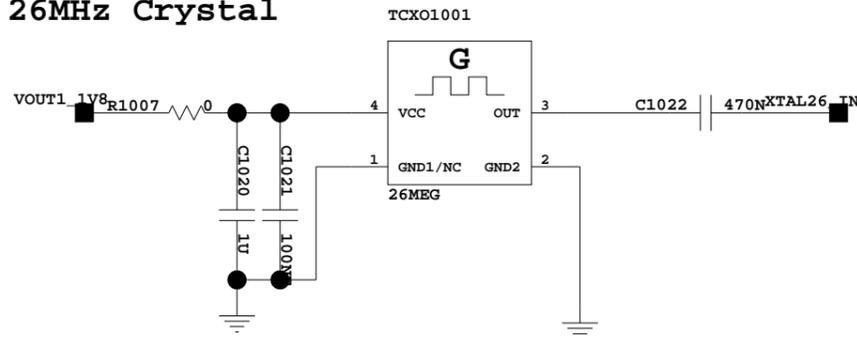
HUAWEI TECH CO.,LTD.

Crystal

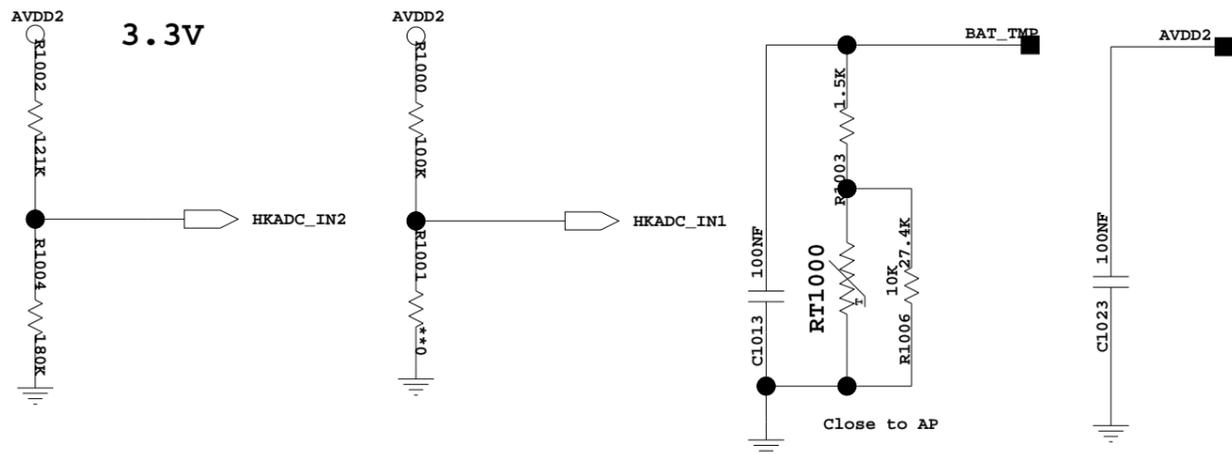
32kHz Crystal



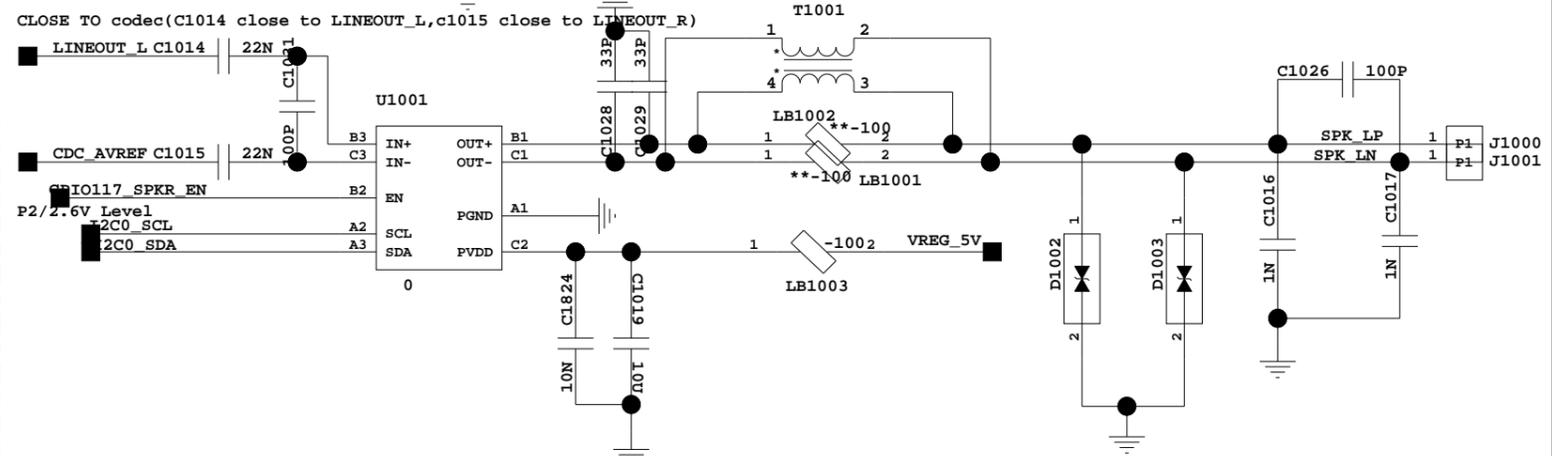
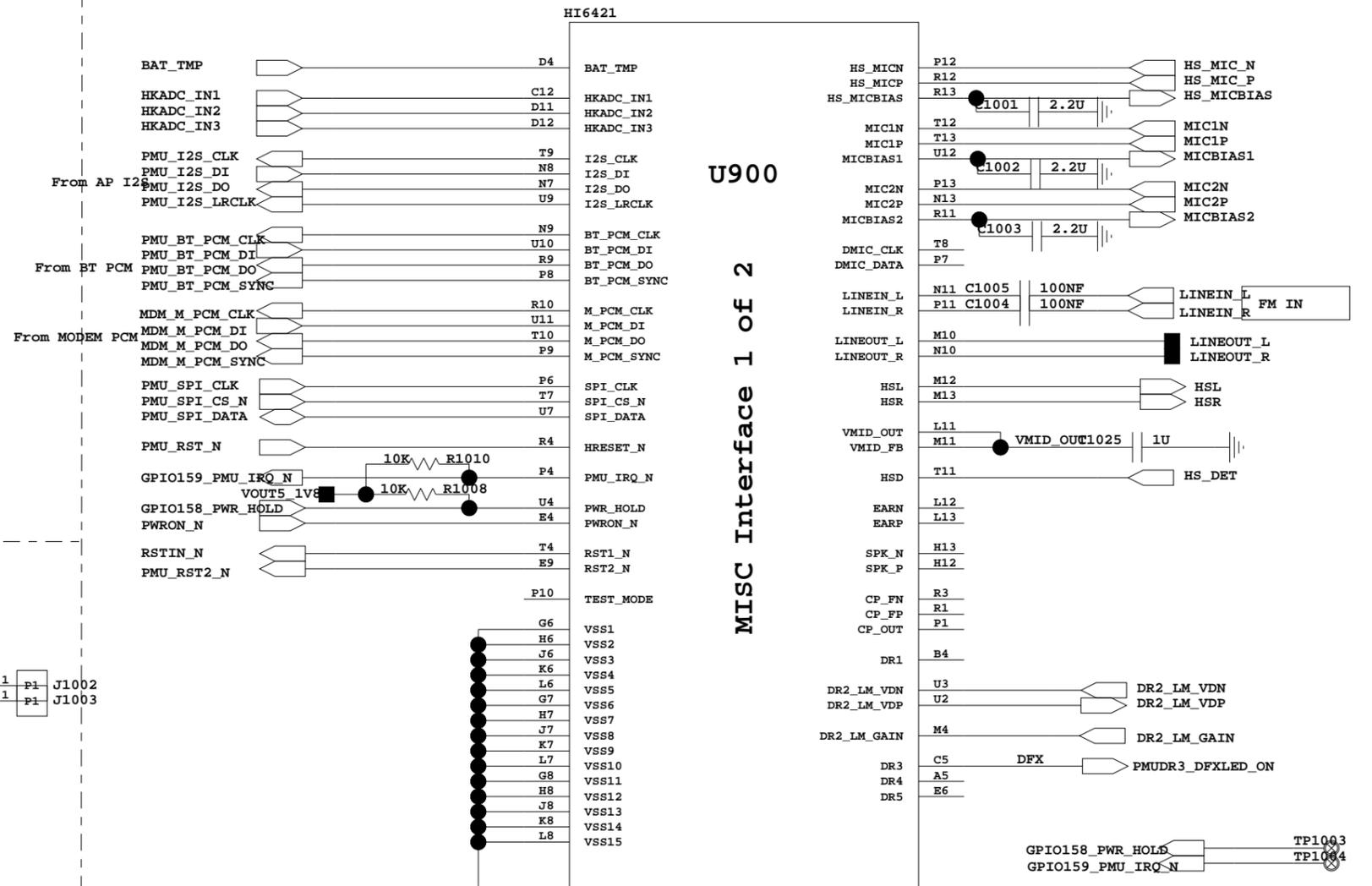
26MHz Crystal



HW Version Detect



Hi6421 Audio CODEC



The type and specification of the components refer to the BOM

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REVIEWED	YANGYONGXIANG 00171286	VER	PART_NUMBER
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		SHEET	10 OF 28
			HUAWEI TECH CO.,LTD.

NA 2011-11-30
ECA NO DATE

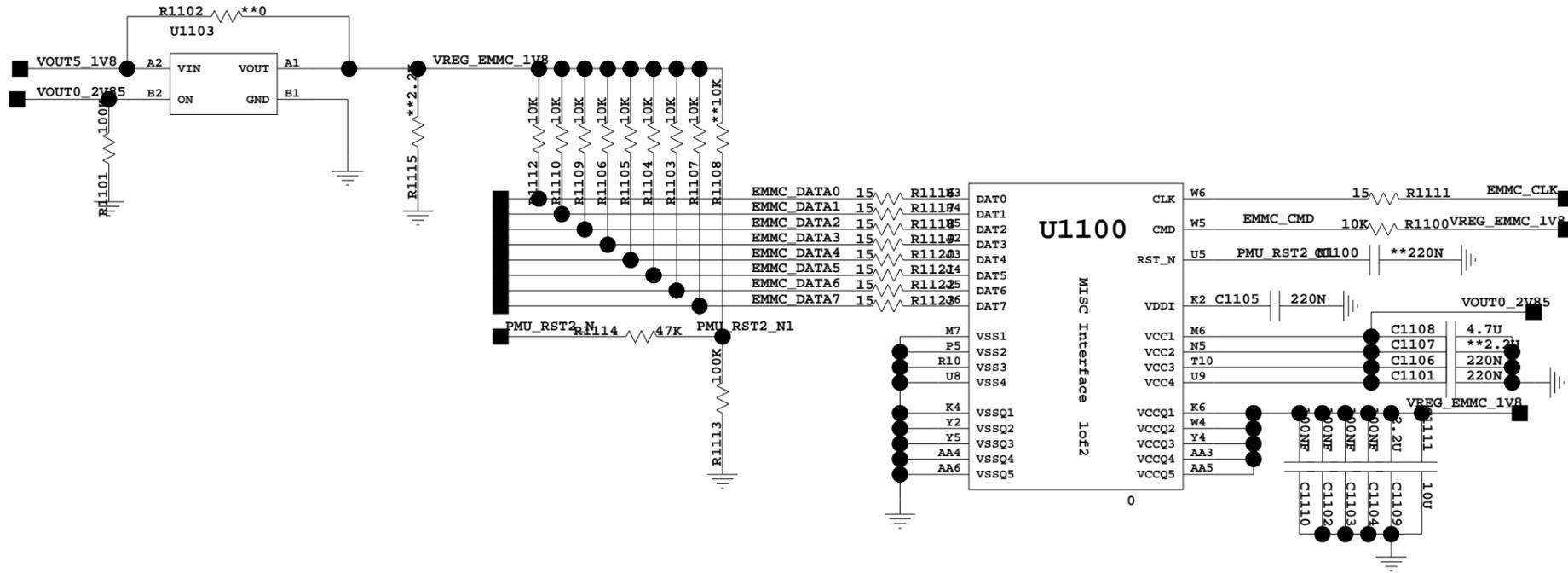
SHEET 10 OF 28

HUAWEI TECH CO.,LTD.

11. 8GB eMMC AND LPDDR2

12*16, Need to Cover shield

Note: when in low power mode, eMMC need to poweroff, VOUT0 = off, VOUT5 = on



U300_POP			
OMAP4430			
A10	VSS1	VSS48	N13
A20	VSS2	VSS49	N14
A23	VSS3	VSS50	N15
AA11	VSS4	VSS51	N16
AA12	VSS5	VSS52	N17
AA20	VSS6	VSS53	N9
AB1	VSS7	VSS54	P12
AE27	VSS8	VSS55	P13
AF2	VSS9	VSS56	P14
AG17	VSS10	VSS57	P15
AG26	VSS11	VSS58	P16
AG4	VSS12	VSS59	P17
AH10	VSS13	VSS60	R12
AH13	VSS14	VSS61	R13
AH21	VSS15	VSS62	R14
AH8	VSS16	VSS63	R15
B13	VSS17	VSS64	R16
B27	VSS18	VSS65	R17
B3	VSS19	VSS66	T12
B6	VSS20	VSS67	T13
C2	VSS21	VSS68	T14
F2	VSS22	VSS69	T15
F25	VSS23	VSS70	T16
H1	VSS24	VSS71	T17
H11	VSS25	VSS72	U12
H13	VSS26	VSS73	U13
H17	VSS27	VSS74	U14
H19	VSS28	VSS75	U15
H28	VSS29	VSS76	U16
J21	VSS30	VSS77	U17
J3	VSS31	VSS78	U2
J4	VSS32	VSS79	U21
K2	VSS33	VSS80	U28
K28	VSS34	VSS81	U8
K8	VSS35	VSS82	Y17
L21	VSS36	VSS83	Y25
L25	VSS37	VSS84	Y26
L26	VSS38		
M1	VSS39	VSSA_USBA00TG	H10
M13	VSS40	VSSA_USBA00TG_3P3V	G10
M14	VSS41		
M15	VSS42	VSSA_HDMI	G11
M16	VSS43		
M17	VSS44	VSSA_DSI_1	P8
M21	VSS45	VSSA_DSI_2	N8
M22	VSS46		
N12	VSS47	VSSA_CSI21	R22

U1100		
NC Interface 20f2		
A4	NC1	U1
A6	NC2	U2
A9	NC3	U3
AA11	NC4	U12
B2	NC5	U13
B13	NC6	U14
D14	NC7	V1
D14	NC8	V2
H1	NC9	V3
H2	NC10	V12
H8	NC11	NC81
H9	NC12	NC82
H10	NC13	NC83
H11	NC14	NC84
H12	NC15	NC85
H13	NC16	NC86
H14	NC17	NC87
J1	NC18	NC88
J7	NC19	NC89
J8	NC20	NC90
J9	NC21	NC91
J10	NC22	NC92
J11	NC23	NC93
J12	NC24	NC94
J13	NC25	NC95
J14	NC26	NC96
K1	NC27	NC97
K3	NC28	NC98
K7	NC29	NC99
K8	NC30	NC100
K9	NC31	NC101
K10	NC32	NC102
K11	NC33	NC103
K12	NC34	NC104
K13	NC35	NC105
K14	NC36	NC106
L1	NC37	NC107
L2	NC38	NC108
L3	NC39	NC109
L12	NC40	NC110
L13	NC41	NC111
L14	NC42	NC112
M1	NC43	NC113
M2	NC44	NC114
M3	NC45	NC115
M12	NC46	NC116
M13	NC47	NC117
M14	NC48	NC118
N1	NC49	NC119
N2	NC50	NC120
N3	NC51	NC121
N12	NC52	NC122
N13	NC53	
N14	NC54	
P1	NC55	RFU1
P2	NC56	RFU2
P12	NC57	RFU3
P13	NC58	RFU4
P14	NC59	RFU5
R1	NC60	RFU6
R2	NC61	RFU7
R3	NC62	RFU8
R12	NC63	RFU9
R13	NC64	RFU10
R14	NC65	RFU11
T1	NC66	RFU12
T2	NC67	RFU13
T3	NC68	RFU14
T12	NC69	RFU15
T13	NC70	RFU16
T14	NC71	RFU17

The type and specification of the components refer to the BOM

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REVIEWED	YANGYONGXIANG 00171286		
		VER	PART_NUMBER
		A	03021NWX
			SHEET 11 OF 28
			HUAWEI TECH CO.,LTD.

12.NC

A

A

B

B

BLANK

C

C

D

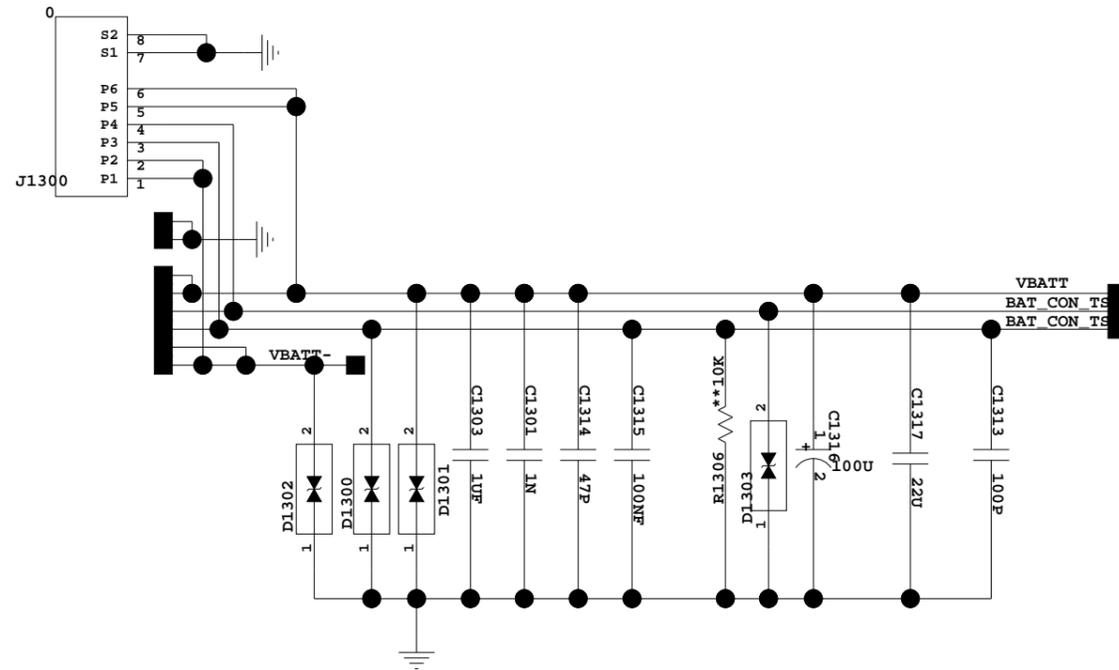
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				ECA NO	DATE
DESIGNED	YANGWENTAO 00181297	SH2101UM		03021NWX_SCH1ZH	
REVIEWED	YANGYONGXIANG 00171286				
		VER	PART_NUMBER	SHEET 12 OF 28	
		A	03021NWX	HUAWEI TECH CO.,LTD.	

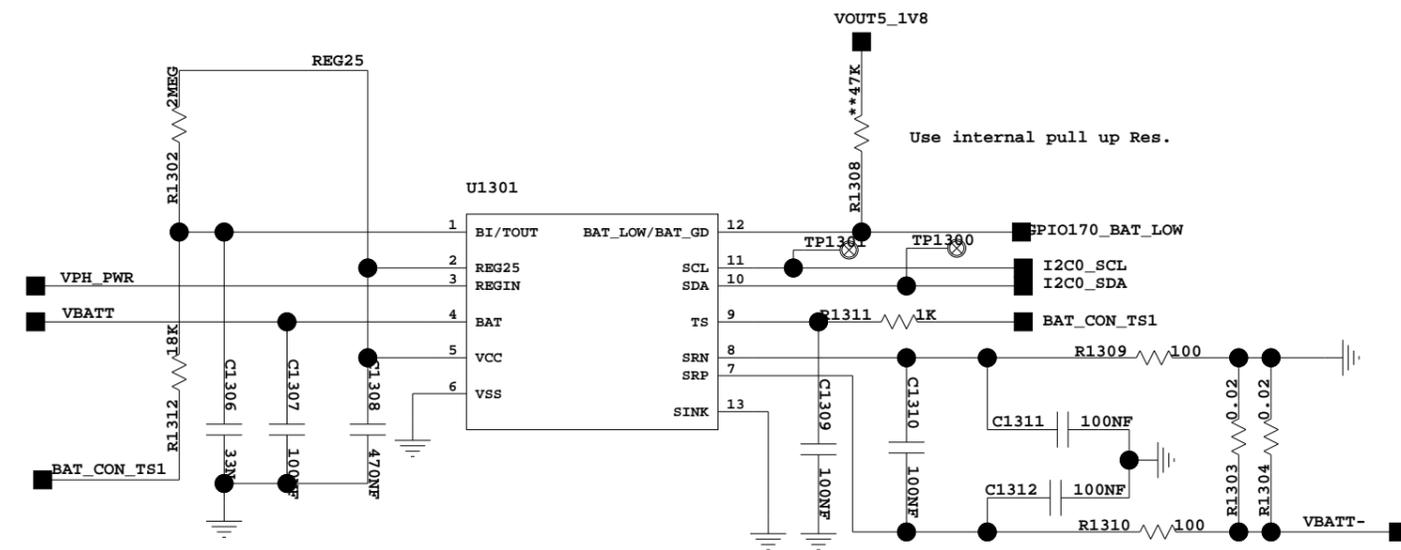
13. Battery management/Battery/Vabrator

Battery Conector



BATTERY MANAGEMENT

CAD note: U1301 close to battery connector



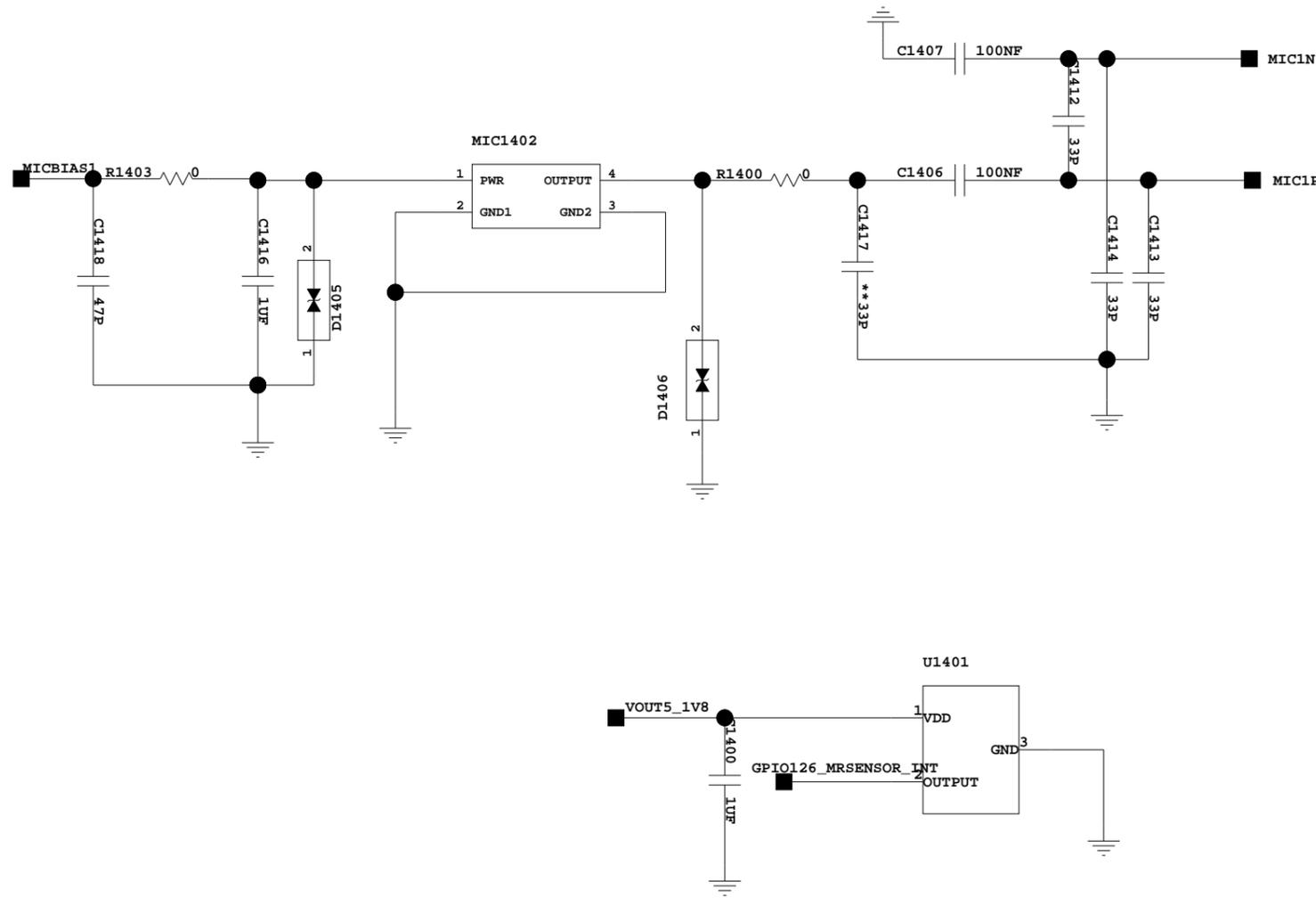
CAD note: differential tr

The type and specification of the components refer to the BOM

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DESIGNED	YANXUXING 00166792	SH2101UM		03021NWX_SCH1ZH	
REVIEWED	YANGWENTAO 00181297				
		VER	PART_NUMBER	SHEET 13 OF 28	
		A	03021NWX	HUAWAI TECH CO.,LTD.	

14. MIC & MR Sensor

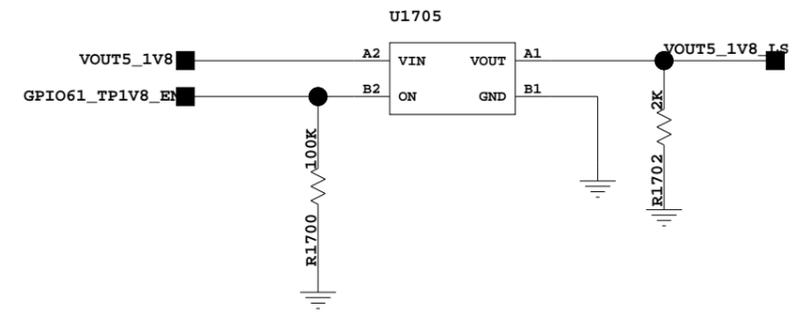
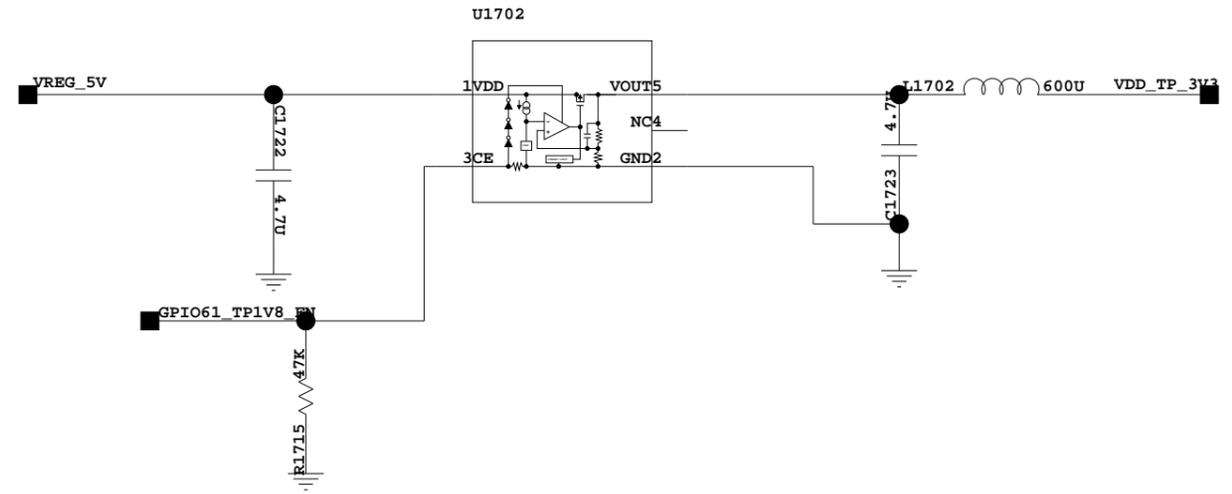
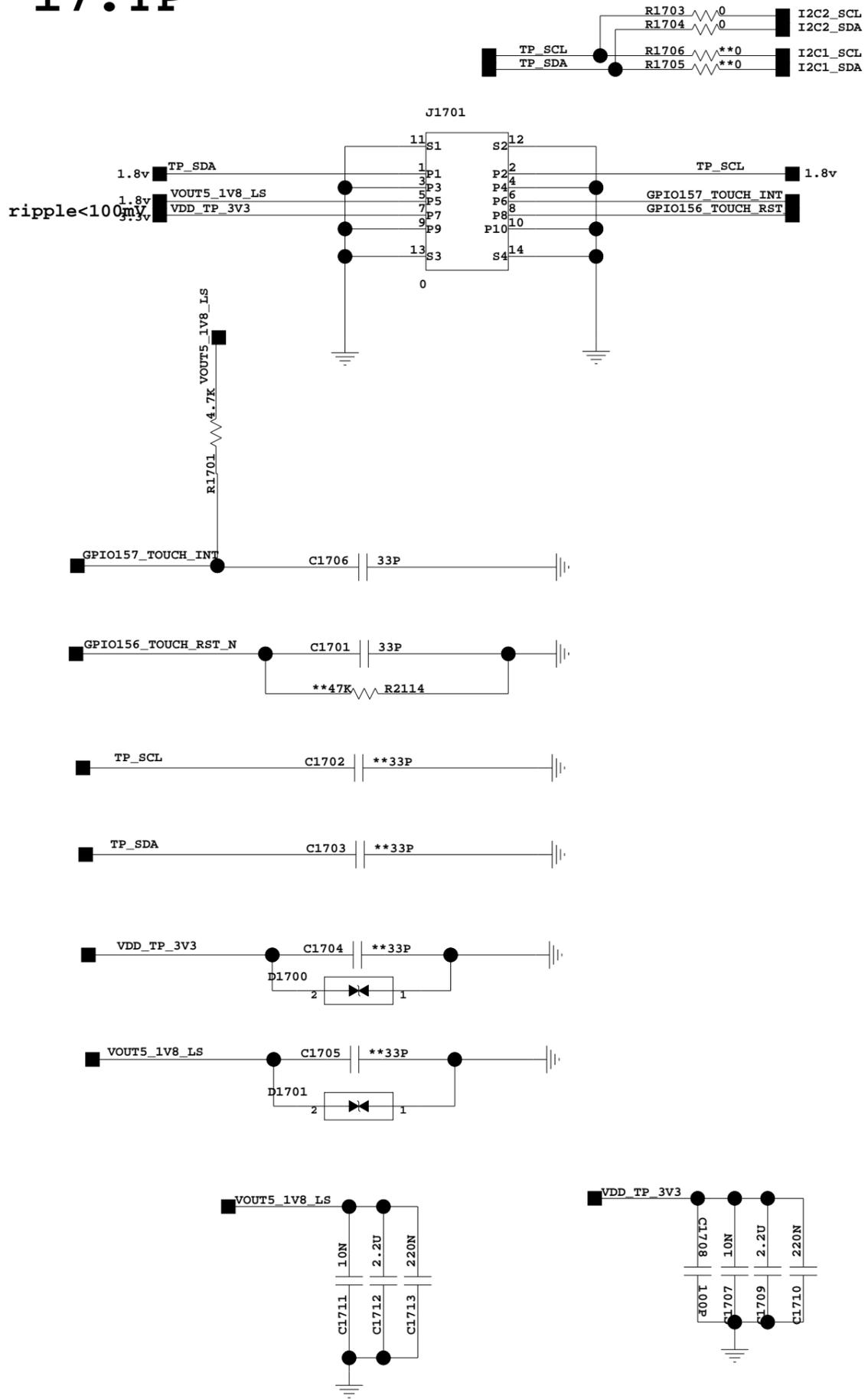
Primarily PAD Mic



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				ECA NO	DATE
DESIGNED	YANGWENTAO 00181297			SH2101UM	
REVIEWED	YANGYONGXIANG 00171286			03021NWX_SCH1ZH	
		VER	PART_NUMBER	SHEET 14 OF 28	
		A	03021NWX	HUAWEI TECH CO.,LTD.	

17.TP

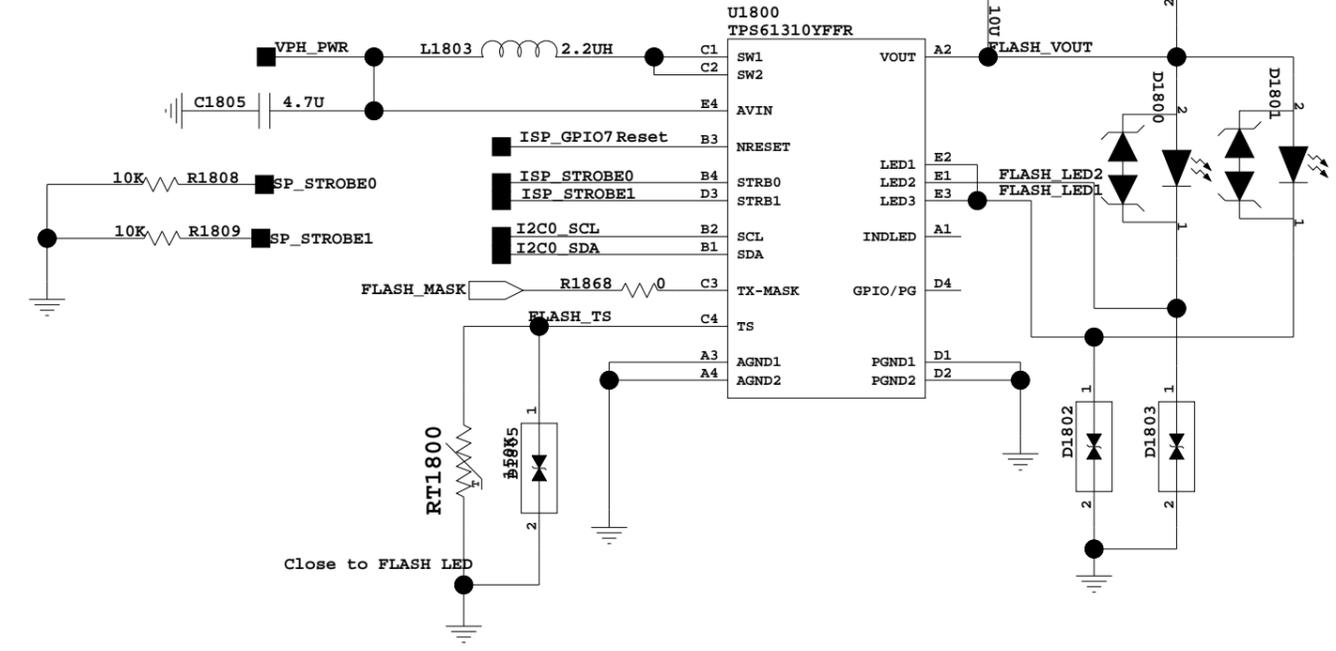
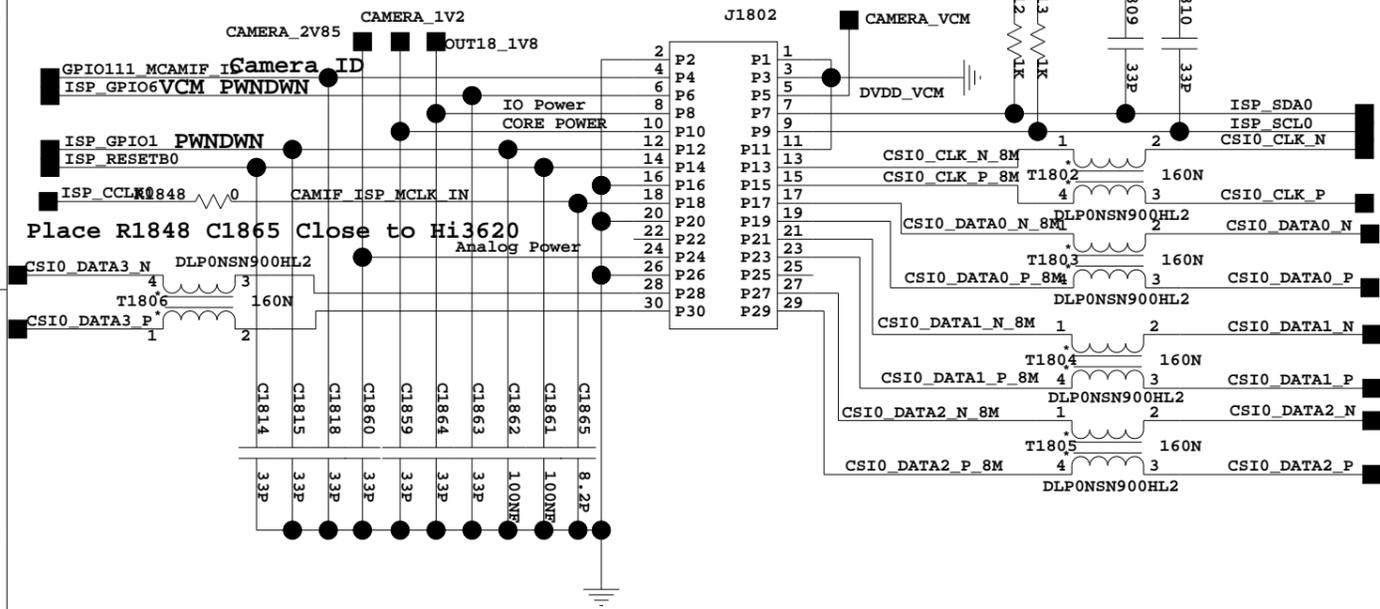


The type and specification of the components refer to the BOM

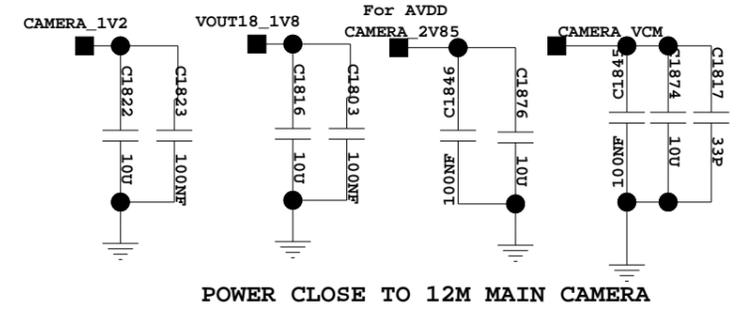
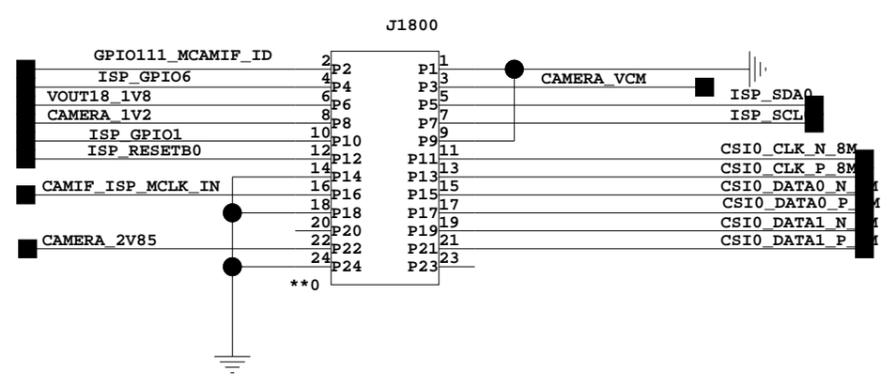
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REVIEWED	XUQIAN 00135004	VER	PART_NUMBER	SHEET 17 OF 28	
		A	03021NWX	HUAWEI TECH CO.,LTD.	

18. Main Camera and Slave Camera

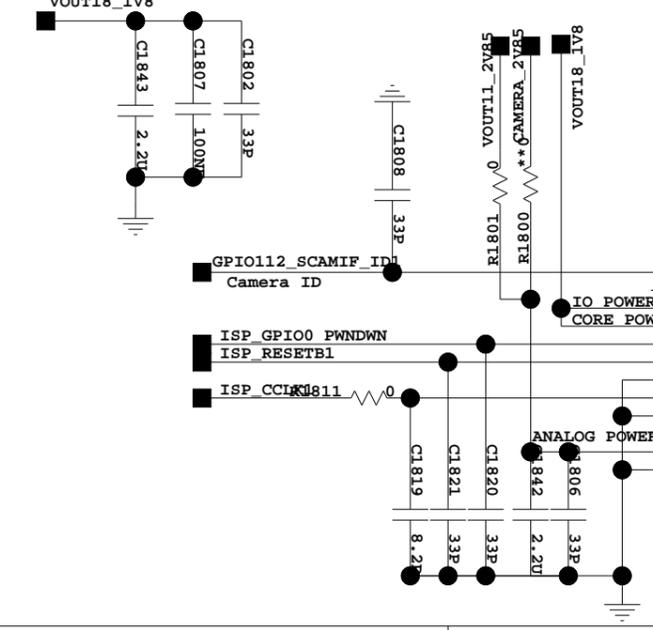
8M 4 LANE MAIN CAMERA



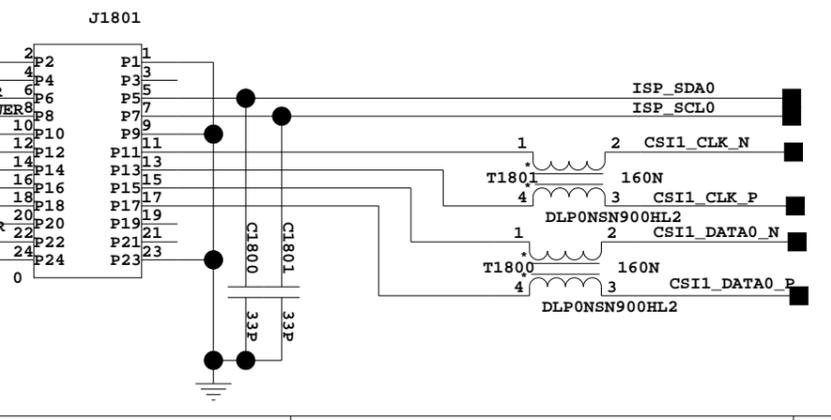
8M 2 LANE MAIN CAMERA



POWER CLOSE TO SLAVE CAMERA



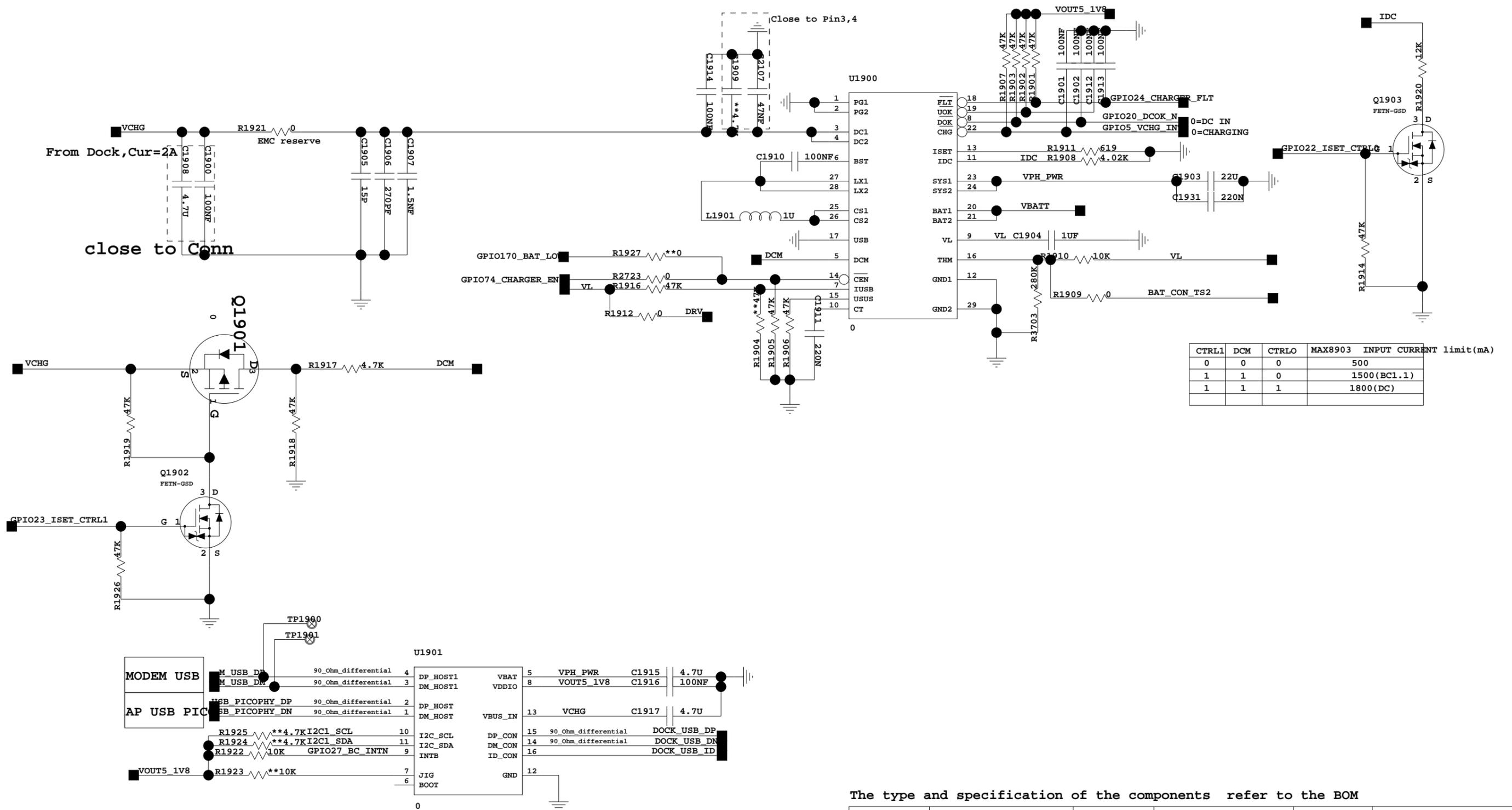
1M HD SLAVE CAMERA



The type and specification of the components refer to the BOM

DESIGNED	ZHONGDUOQUN 00181792	SH2101UM	03021NWX_SCH1ZH
REVIEWED	XUQIAN 00135004	VER: A	PART_NUMBER: 03021NWX
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		HUAWEI TECH CO.,LTD.	

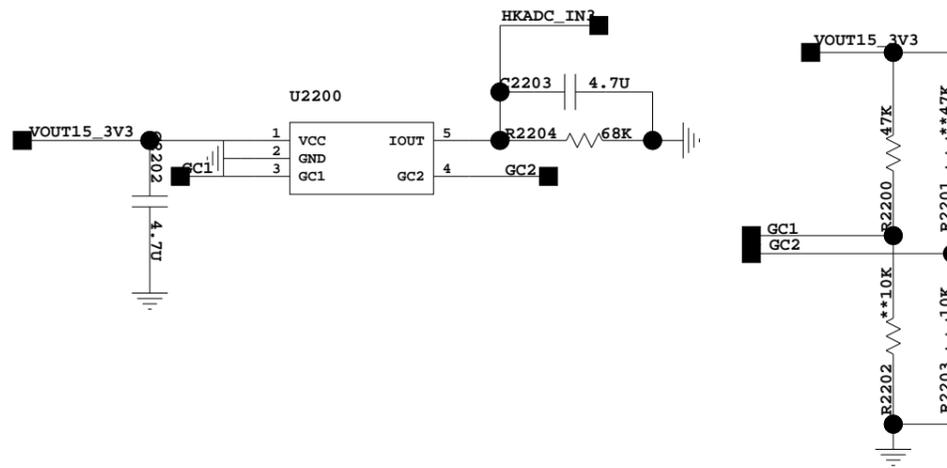
19. Charge management



The type and specification of the components refer to the BOM

				NA	2011-11-30
				ECA NO	DATE
DESIGNED	YANXUXING 00166792	SH2101UM		03021NWY_SCH1ZH	
REVIEWED	ZHANGDEWEN 69779	VER	PART_NUMBER	SHEET 19 OF 28	
		A	03021NWY	HUAWAI TECH CO.,LTD.	

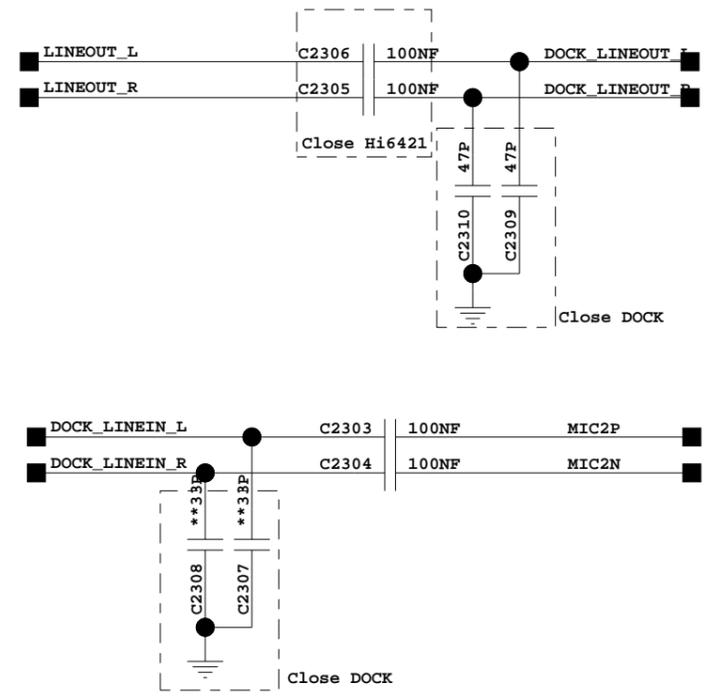
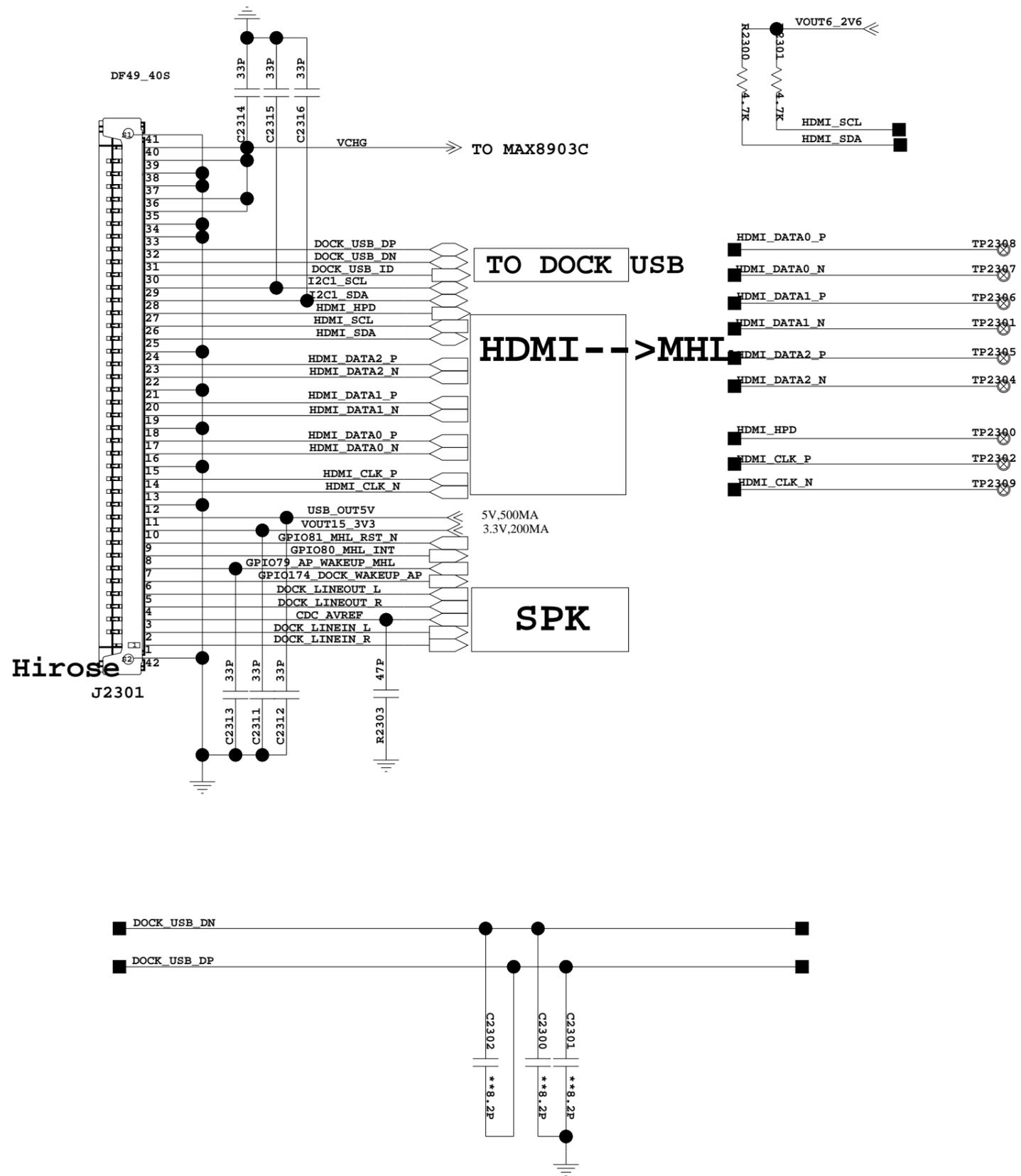
22. Ambient Light



The type and specification of the components refer to the BOM

				NA	2011-11-30
				ECA NO	DATE
DESIGNED	YANGWENTAO 00181297	SH2101UM		03021NWX_SCH1ZH	
REVIEWED	YANGYONGXIANG 00171286	VER	PART_NUMBER	SHEET 22 OF 22	
		A	03021NWX	HUAWEI TECH CO.,LTD.	

23. MainBoard to SubBoard Connector

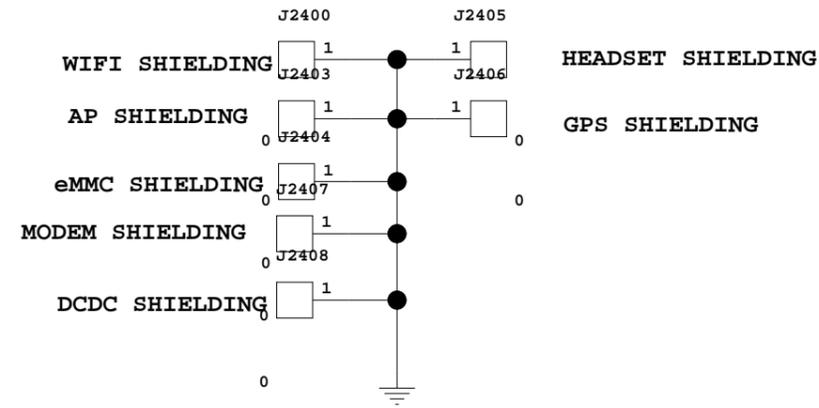


The type and specification of the components refer to the BOM

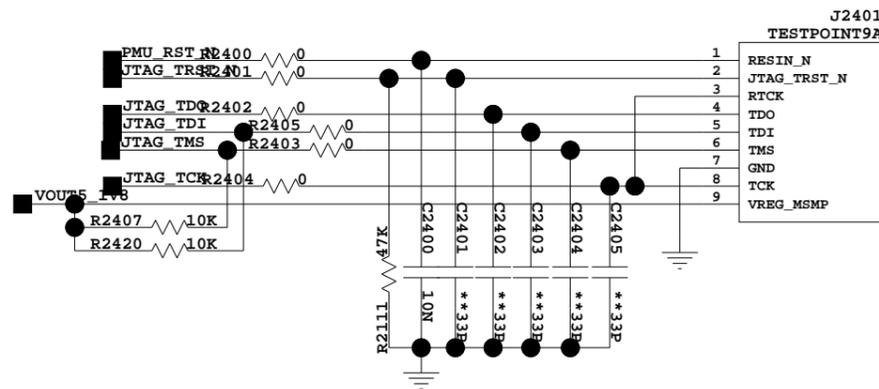
				NA	2011-11-30
				ECA NO	DATE
DESIGNED	YANGWENTAO 00181297	SH2101UM		03021NWY_SCH1ZH	
REVIEWED	YANGYONGXIANG 00171286				
		VER	PART_NUMBER	SHEET 23 OF 28	
		A	03021NWY	HUAWEI TECH CO.,LTD.	

24. Test Points/JTAG/Shields

SHIELDING



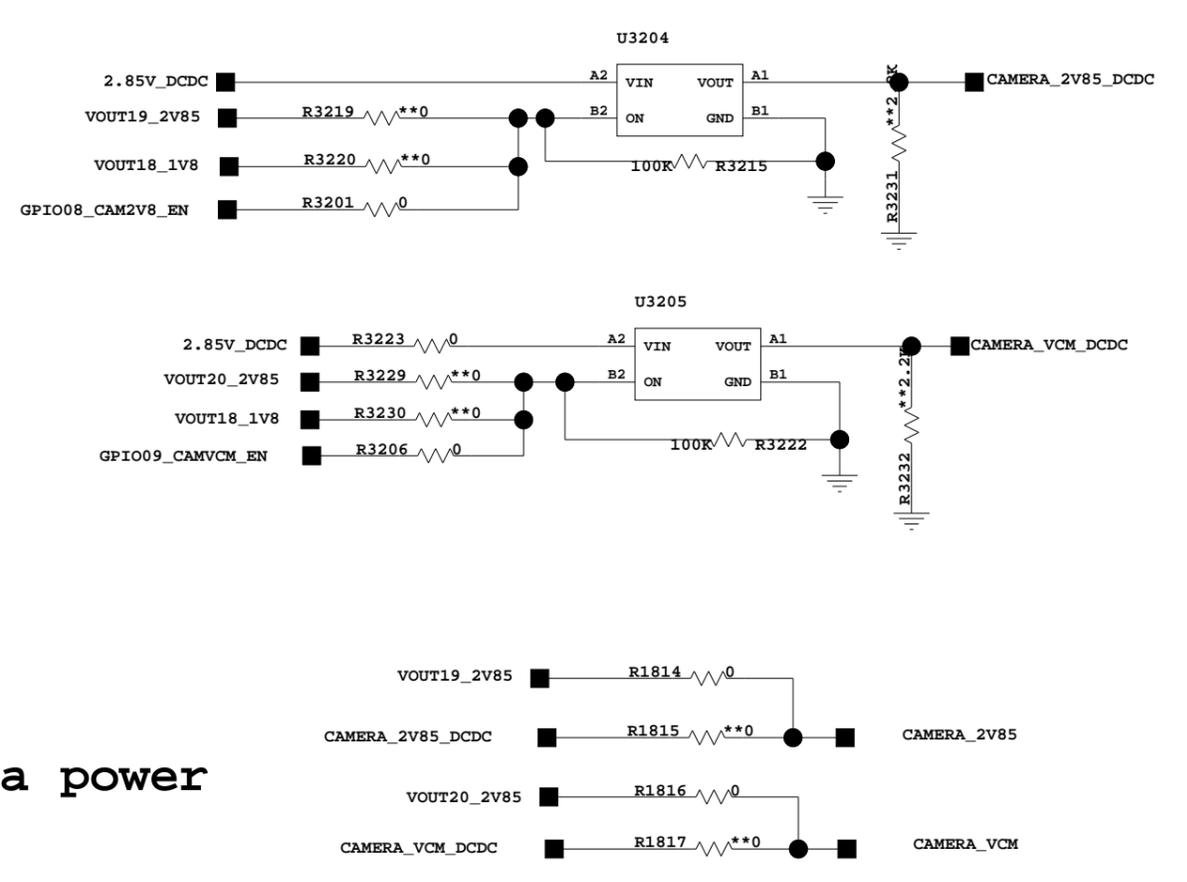
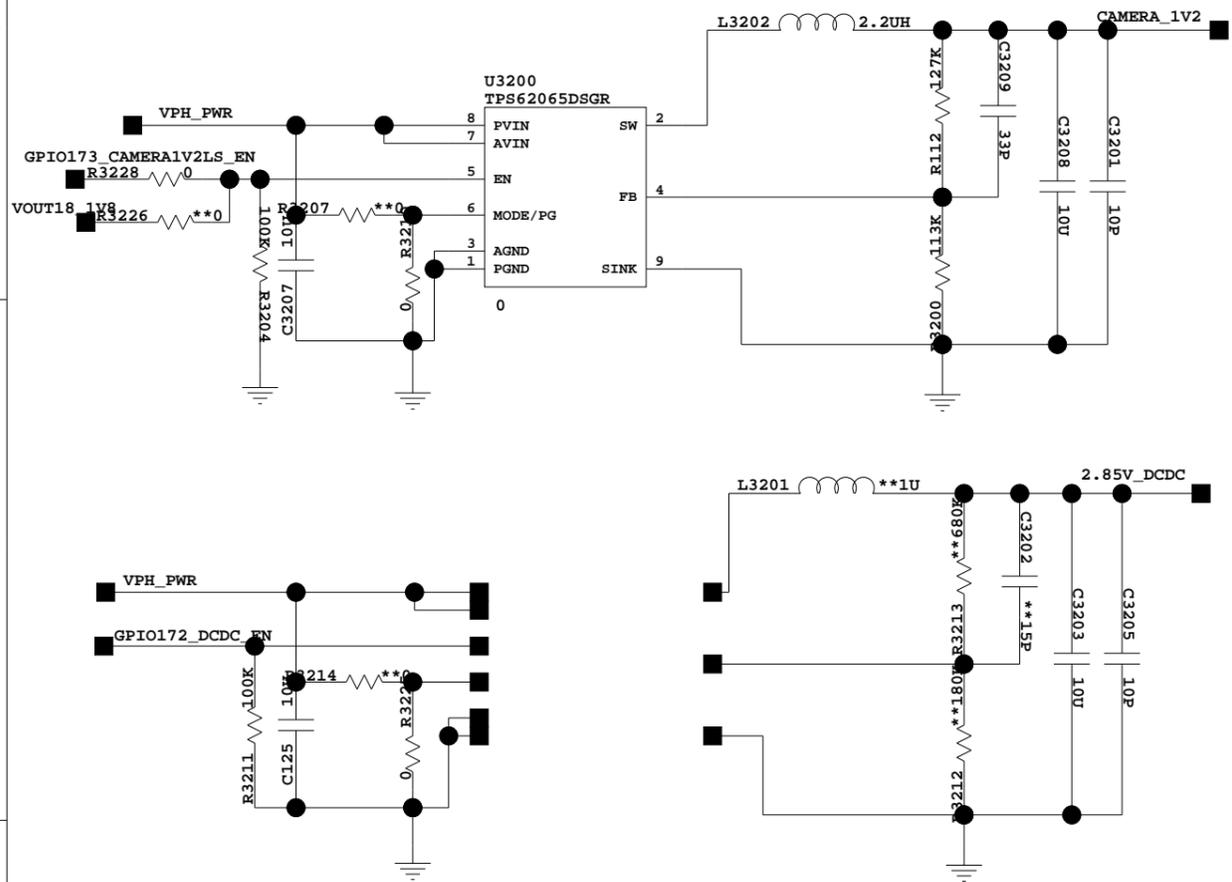
AP JTAG



The type and specification of the components refer to the BOM

				NA	2011-11-30
				ECA NO	DATE
DESIGNED	YANGWENTAO 00181297	SH2101UM		03021NWX_SCH1ZH	
REVIEWED	YANGYONGXIANG 00171286	VER	PART_NUMBER	SHEET 24 OF 28	
		A	03021NWX	HUAWEI TECH CO.,LTD.	

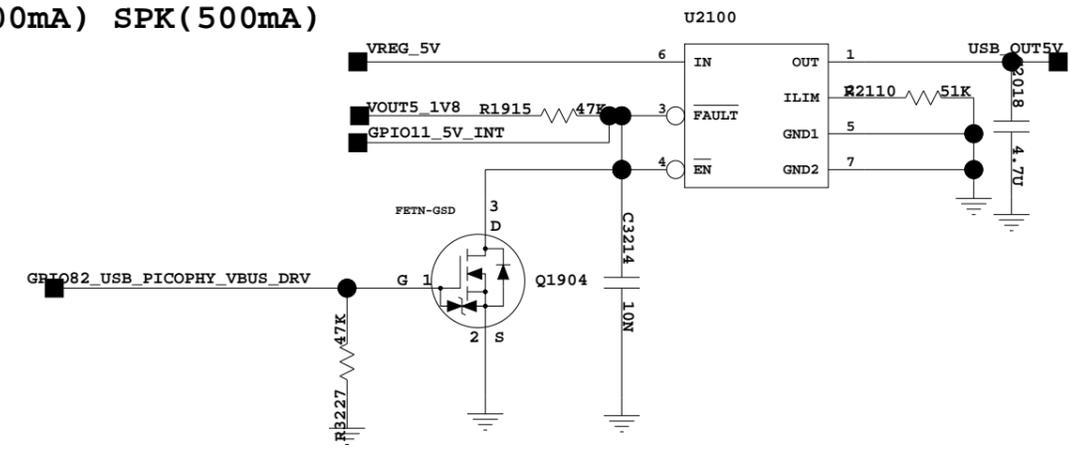
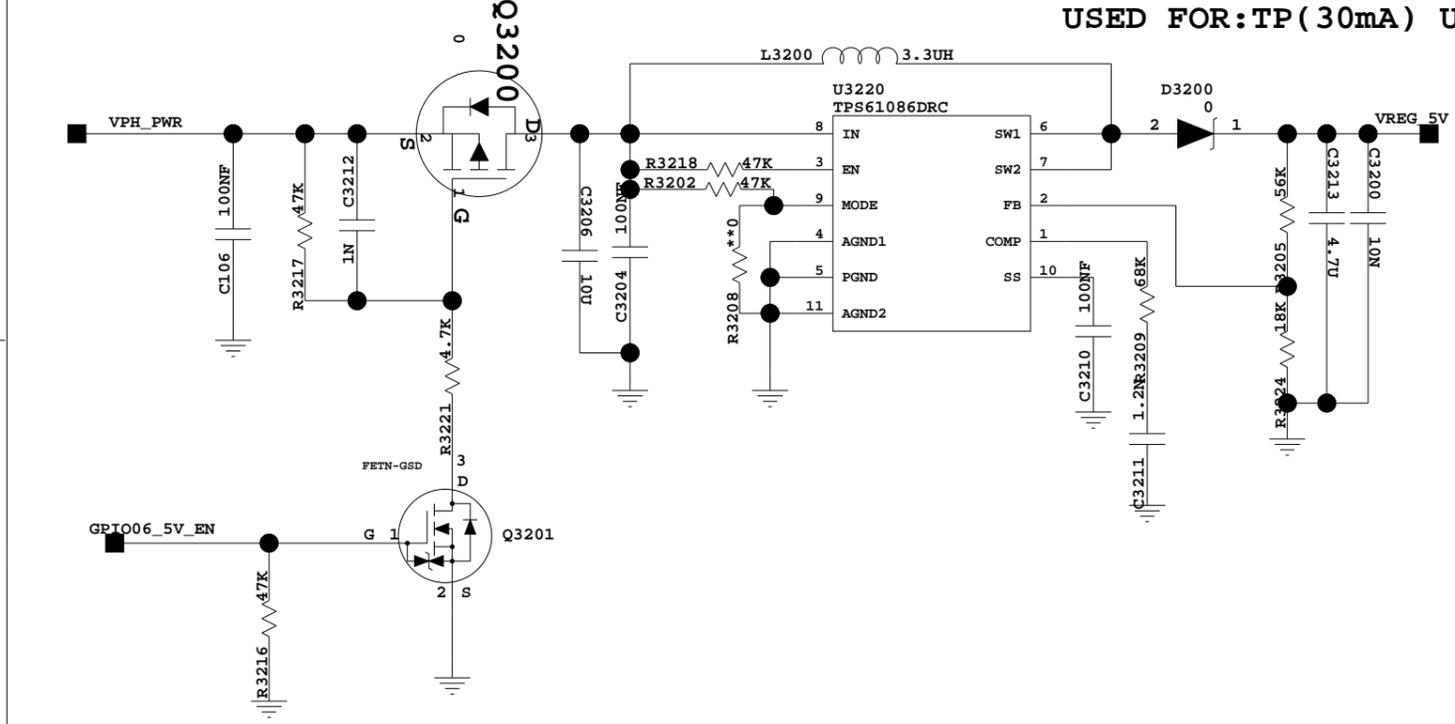
25.2.85V DCDC



Camera power

5V BOOST

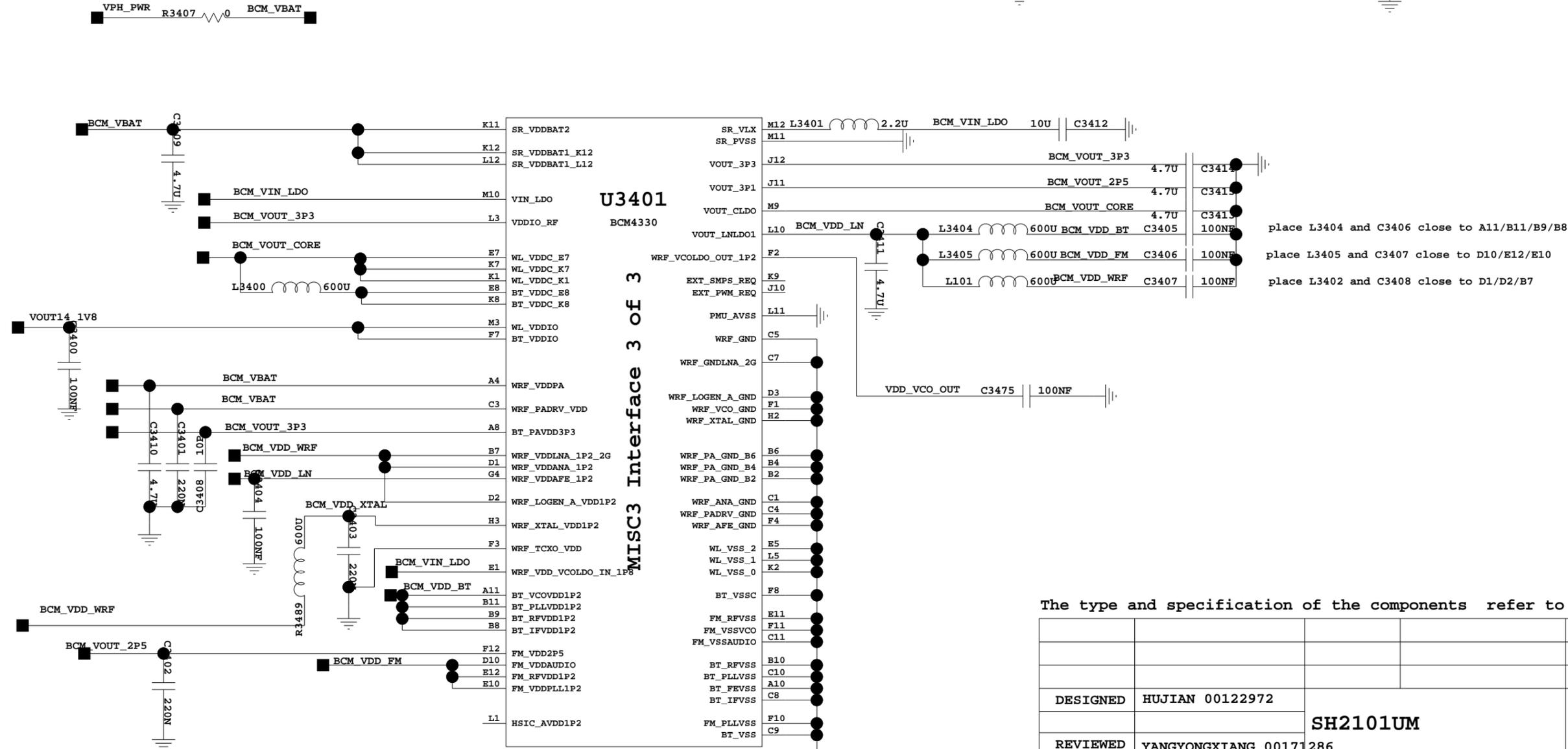
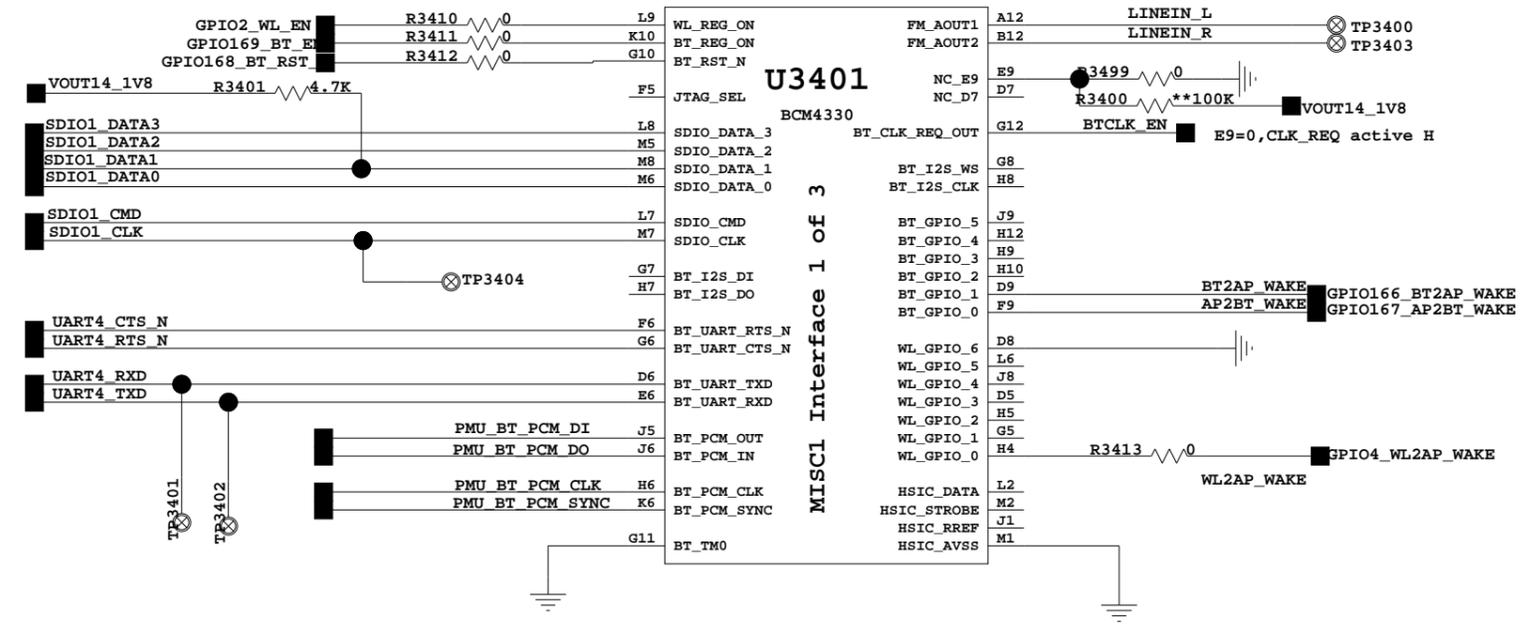
USED FOR: TP(30mA) USB(500mA) SPK(500mA)



The type and specification of the components refer to the BOM

				NA	2011-11-30
				ECA NO	DATE
DESIGNED	YANXUXING 00166792	SH2101UM		03021NWX_SCH1ZH	
REVIEWED	ZHANGDEWEN 69779	VER	PART_NUMBER	SHEET 25 OF 28	
		A	03021NWX	HUAWAI TECH CO.,LTD.	

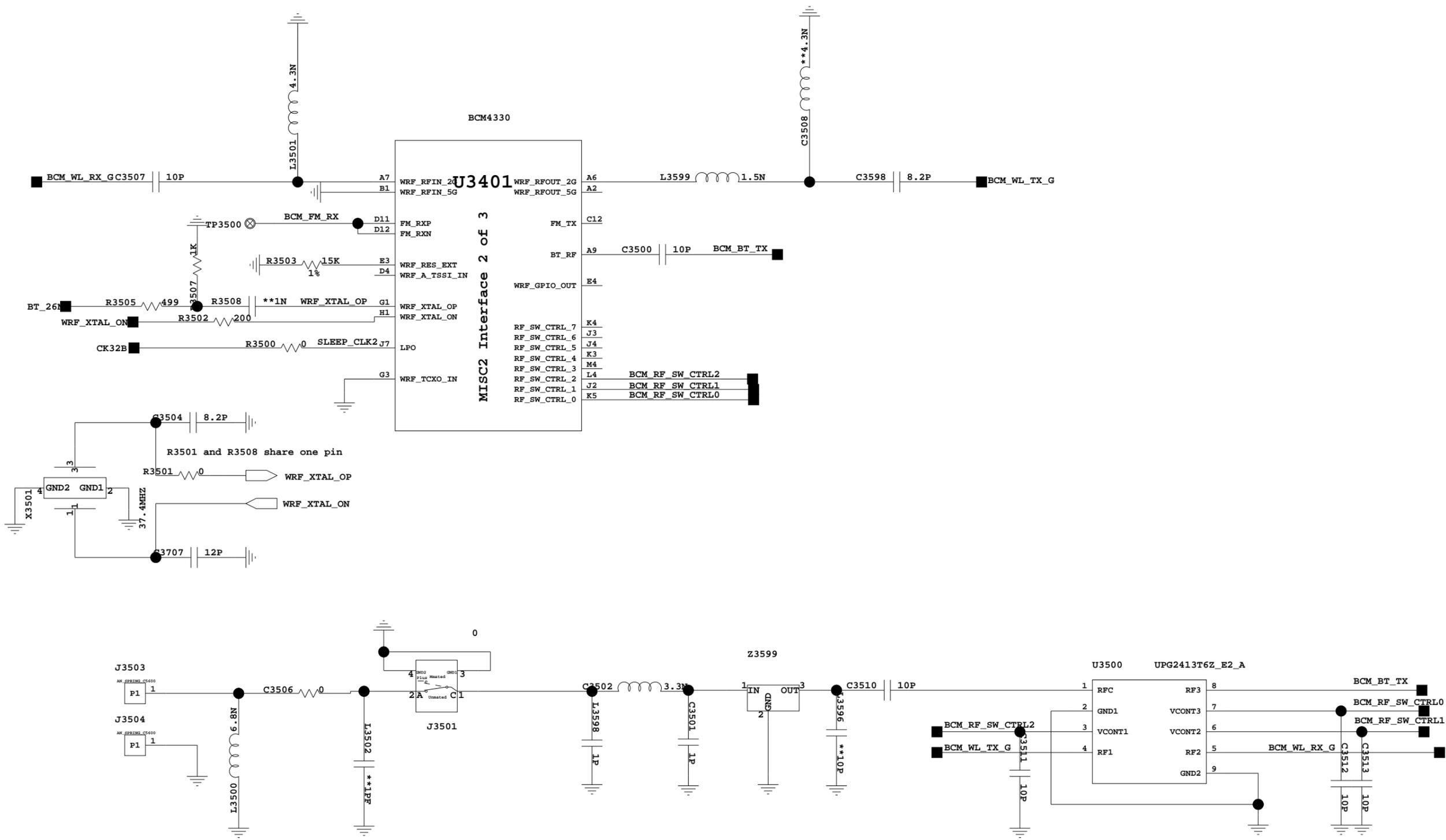
26. BCM4330 BB



The type and specification of the components refer to the BOM

DESIGNED	HUJIAN 00122972	SH2101UM	03021NWX_SCH1ZH
REVIEWED	YANGYONGXIANG 00171286		
		VER	PART_NUMBER
		A	03021NWX
			SHEET 26 OF 28
			HUAWEI TECH CO.,LTD.

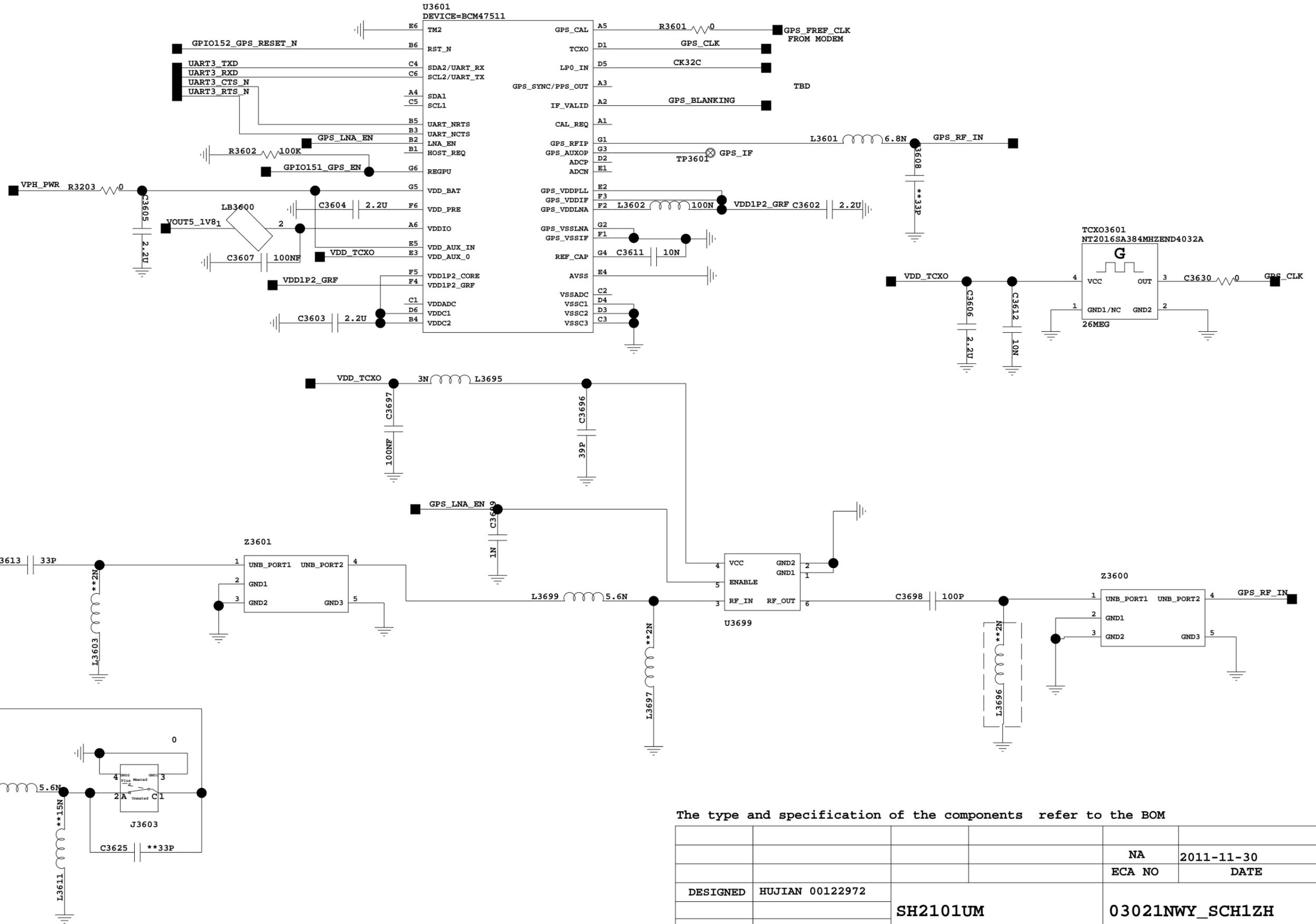
27. WIFI RF



The type and specification of the components refer to the BOM

				NA	2011-11-30
				ECA NO	DATE
DESIGNED	HUJIAN 00122972	SH2101UM		03021NWX_SCH1ZH	
REVIEWED	YANGYONGXIANG 00171286	VER	PART_NUMBER	SHEET 27 OF 28	
		A	03021NWX	HUAWEI TECH CO.,LTD.	

28.GPS RF



The type and specification of the components refer to the BOM

				NA	2011-11-30
				ECA NO	DATE
DESIGNED	HUJIAN 00122972	SH2101UM		03021NWX_SCH1ZH	
REVIEWED	YANGYONGXIANG 00171286				
		VER	PART_NUMBER	SHEET 28 OF 28	
		A	03021NWX	HUAWAI TECH CO.,LTD.	