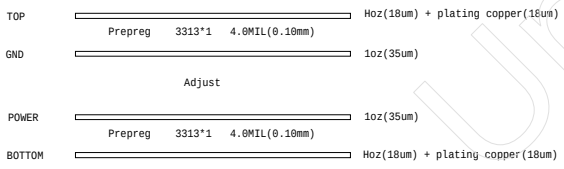
CONTENT INDEXING

PCB POWER WIRE WIDTH INDICATE

above 80 miles
above 50 miles
above 30 miles
above 16 miles
No indicate Under needs

4 LAYERS PCB STACK



Rockchip 瑞芯微电子

Title: Index		
File: 86V-2926		REV: 1.1
Create Date: Wednesday, December 14, 2011	Page Num:1	
Modify Date: Friday, September 06, 2013	Page Total:15	

Version	Date	Author	Change Note	Note
V1.0	20120718	LX	First edictor	
V1.1	20120822	LGL	1. Change PMU VDIG1 to VCC1.5_CIF and connect it to camera DVDD 2.Correct the reset key and power key,Change D16,D12 footprint to SOD123,And C356 to C0805 3.Add NC/8.2K resister between PWM_LOG and GND 4.Update the part of RK2928L 5.Change the value of R57 to 10K,and R132 to 2.2K 6.Add test point and mark 6.Add R144(NC/0R) between the net of DCIN and VDC	
V1.1	20120911	HXS	1. Remove PMIC_GPIO 2. Remove VIB Circuit 3. Change TP_RST to RC Circuit	

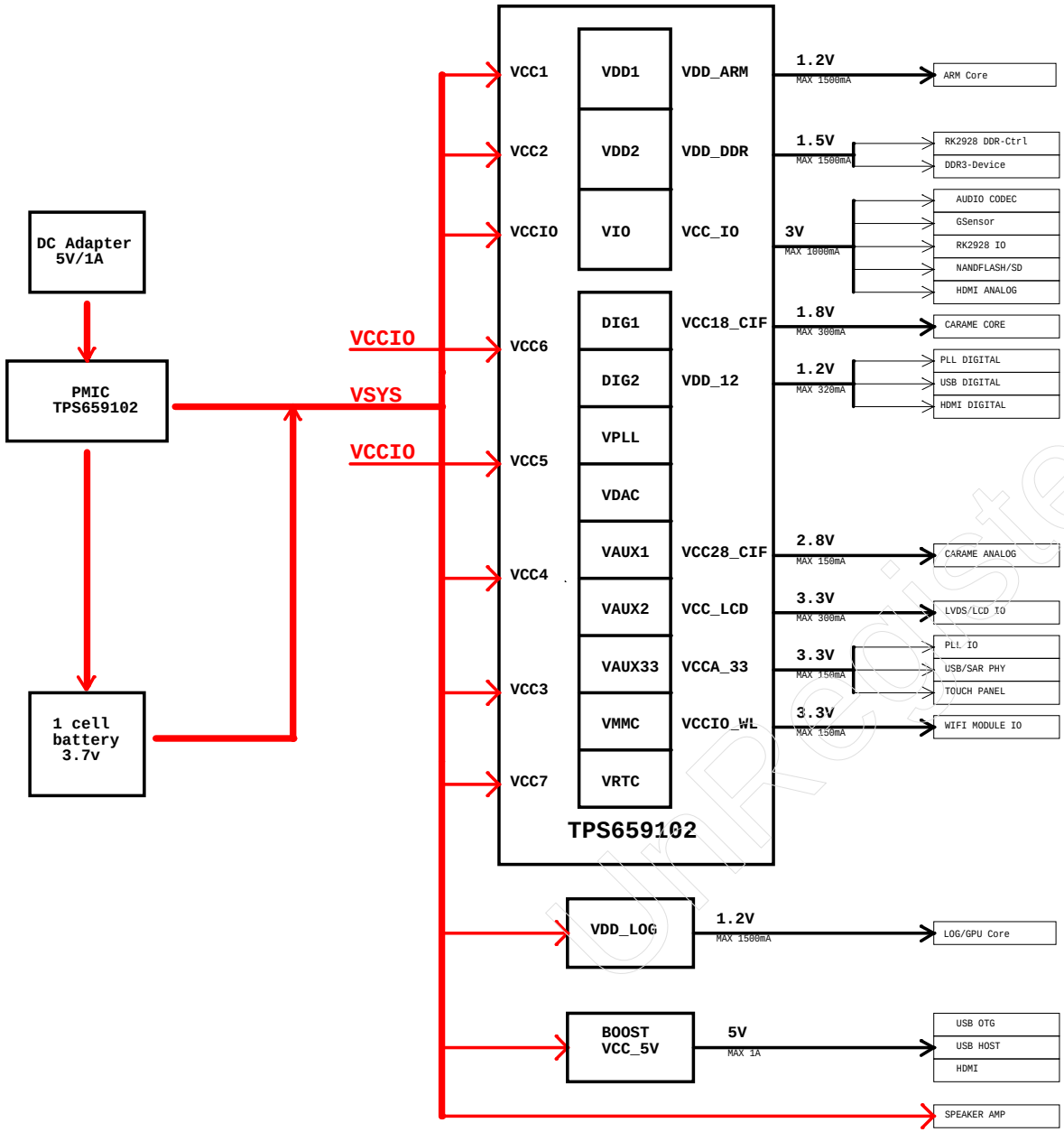
Rockchip 瑞芯微电子 福州瑞芯微电子有限公司

Title: Modify note

File: 86V-2926 REV: 1.1

Create Date: Saturday, October 23, 2010 Page Num: 2

Modify Date: Friday, September 06, 2013 Page Total: 15



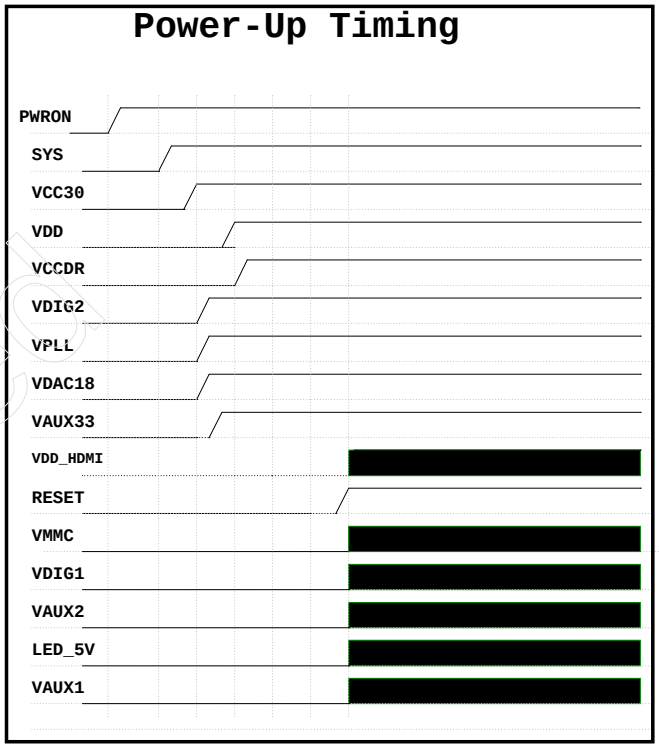


Table 12. Power Sources

RESOURCE	TYPE	VOLTAGES	POWER
VIO	SMPS	1.5 V / 1.8 V / 2.5 V / 3.3 V	1000 mA
VDD1	SMPS	0.6 ... 1.5 in 12.5-mV steps Programmable multiplication factor: x2, x3	1500 mA
VDD2	SMPS	0.6 ... 1.5 in 12.5-mV steps Programmable multiplication factor: x2, x3	1500 mA
VDD3	SMPS	5 V	100 mA
VDIG1	LDO	1.2 V, 1.5 V, 1.8 V, 2.7 V	300 mA
VDIG2	LDO	1 V, 1.1 V, 1.2 V, 1.8 V	300 mA
VPLL	LDO	1.0 V, 1.1 V, 1.8 V, 2.5 V	50 mA
VDAC	LDO	1.8 V, 2.6 V, 2.8 V, 2.85 V	150 mA
VAUX1	LDO	1.8 V, 2.5 V, 2.8 V, 2.85 V	300 mA
VAUX2	LDO	1.8 V, 2.8 V, 2.9 V, 3.3 V	150 mA
VAUX33	LDO	1.8 V, 2.0 V, 2.8 V, 3.3 V	150 mA
VMMC	LDO	1.8 V, 2.8 V, 3.0 V, 3.3 V	300 mA

POWER DIAGRAM

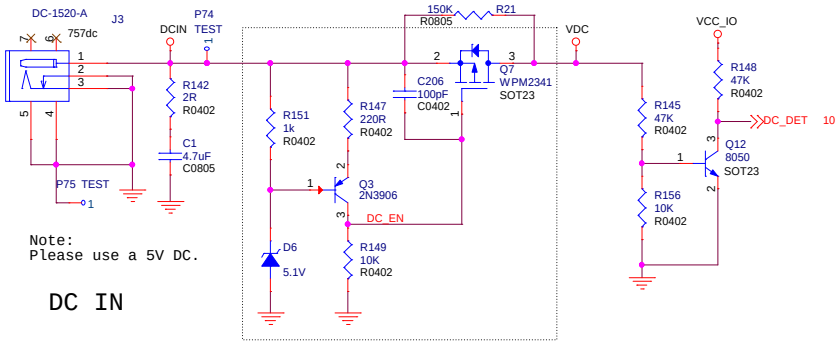
Rockchip 瑞芯微电子

Title: System power diagram

File: 86V-2926 REV: 1.1

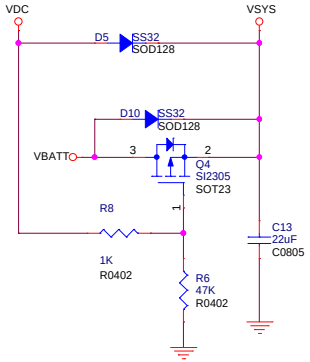
Create Date: Wednesday, March 02, 2011 Page Num: 4

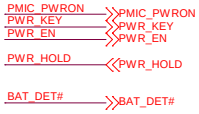
Modify Date: Friday, September 06, 2013 Page Total: 15

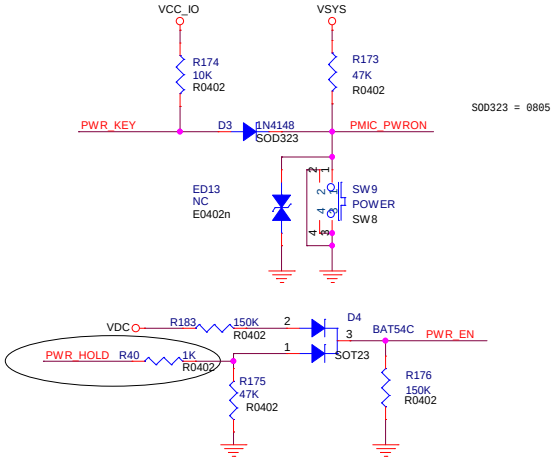


Note:
Please use a 5V DC.

DC IN

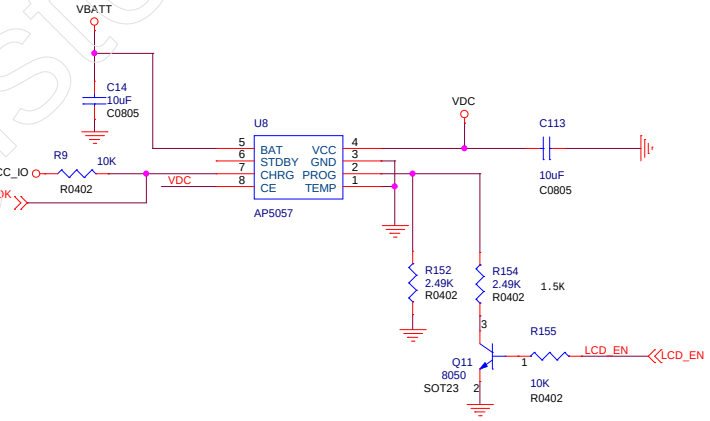




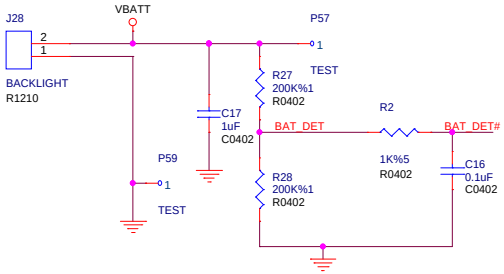


Charging icon displayed if power key is long pressed when adapter or usb is exist!

POWER CONTROL



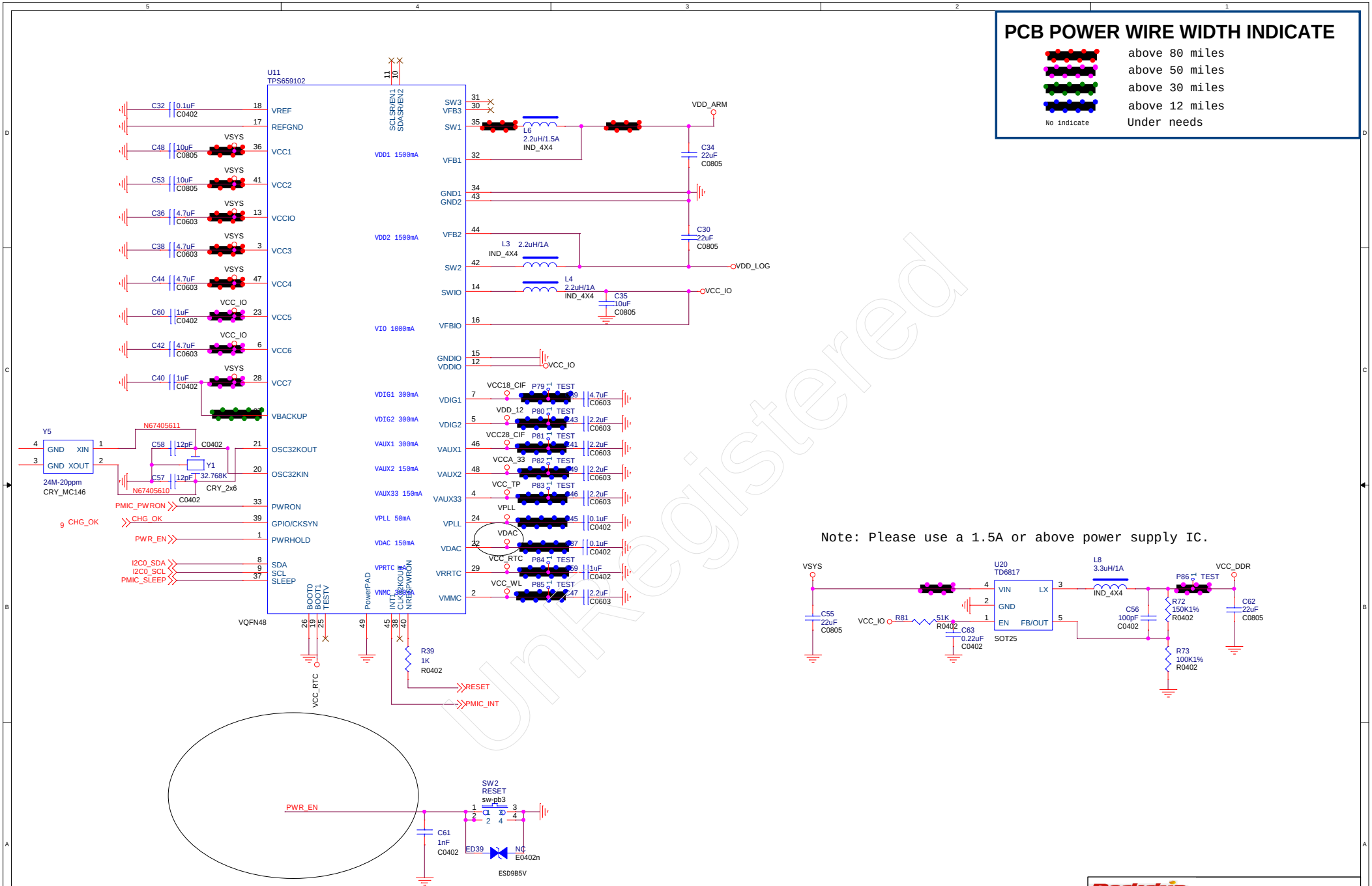
BATTER

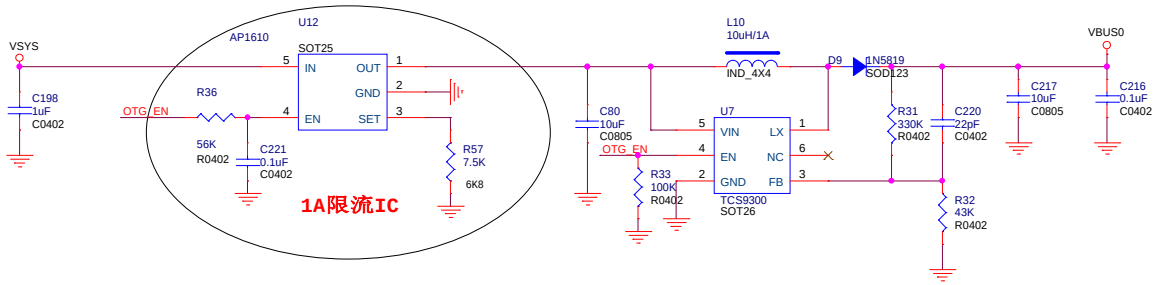


CHARG

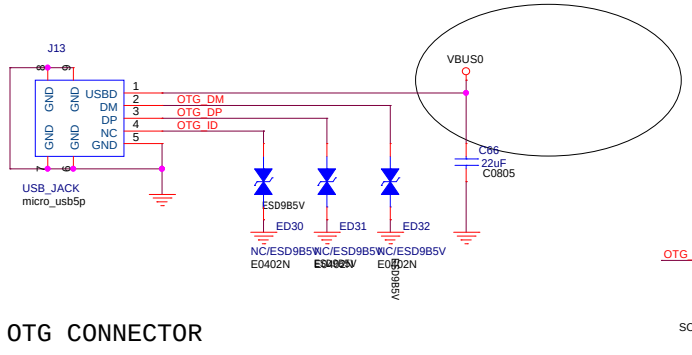
EMC5040/RT9505:Icharge=830V/Rset, Used R151,No used R149
LP28011:Icharge=300X(2.5/Rset), Used R149,No used R151
Don't suggest charging current more than 800 mA;

Rockchip 瑞芯微电子		
Title: DC/Charge		
File: 86V-2926		REV: 1.1
Create Date: Thursday, November 24, 2011		Page Num: 5
Modify Date: Friday, September 06, 2013		Page Total: 15

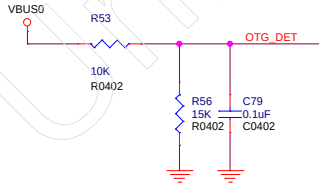




OTG POWER

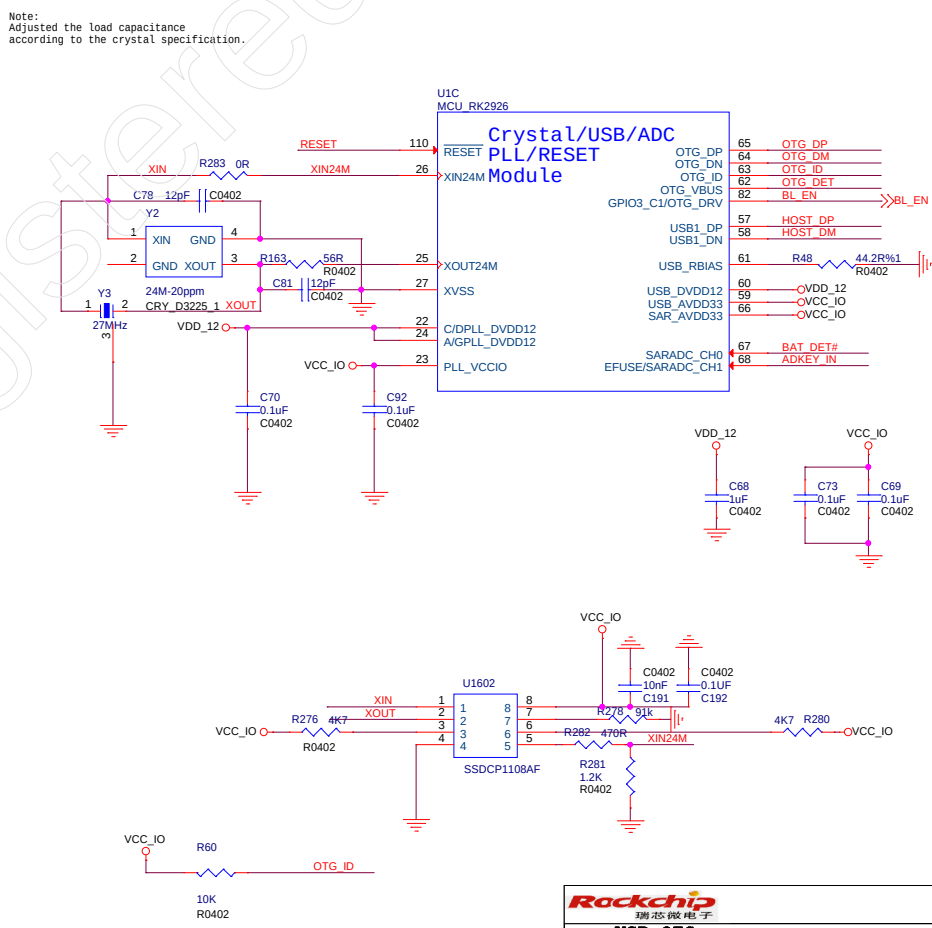


USB OTG CONNECTOR



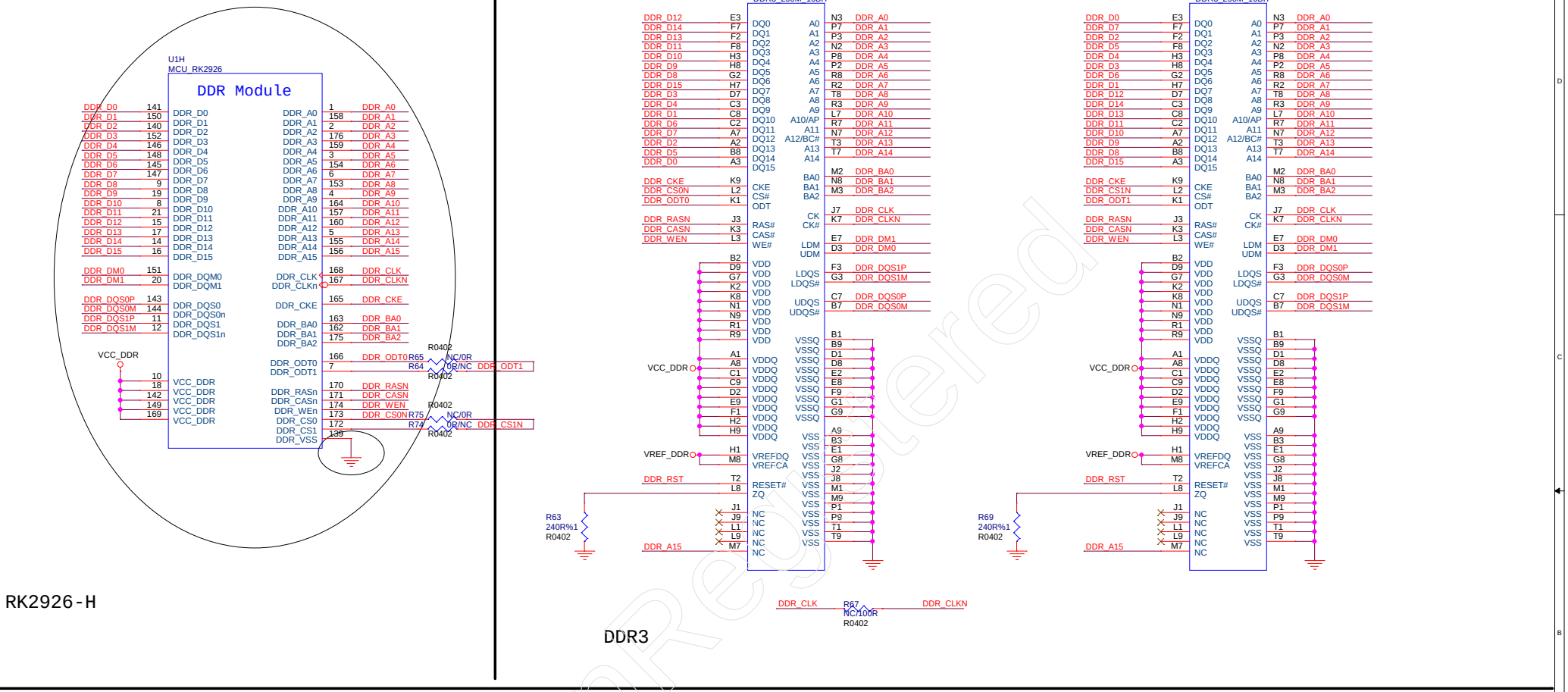
USB_DET

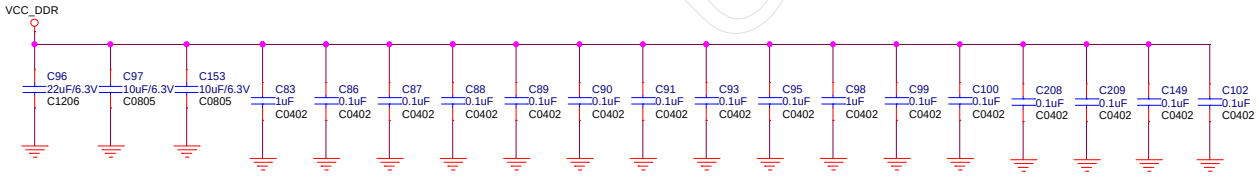
VIBRATION

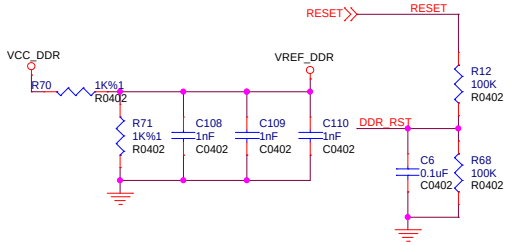


RK2926-C

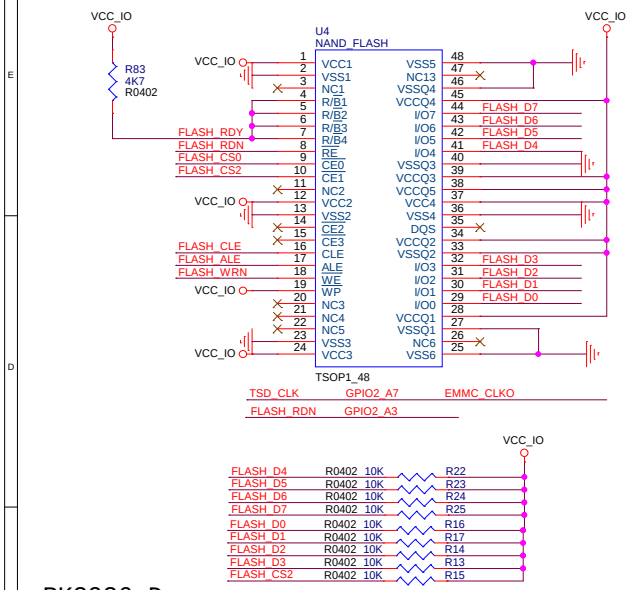
Rockchip 瑞芯微电子		
Title: USB OTG		
File: 86V-2926		REV: 1.1
Create Date: Tuesday, November 29, 2011	Page Num: 7	
Modify Date: Friday, September 13, 2013	Page Total: 15	





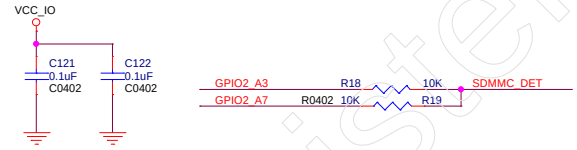


Rockchip 瑞芯微电子		
Title: DDR3		
File: 86V-2926		REV: 1.1
Create Date: Tuesday, November 09, 2010		Page Num: 8
Modify Date: Friday, September 13, 2013		Page Total: 15

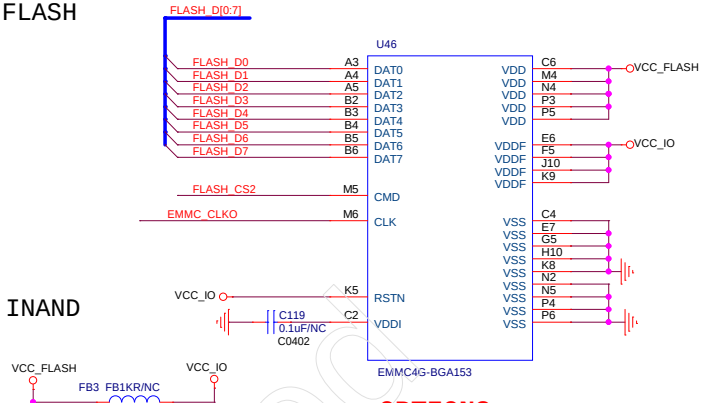


RK2926-D

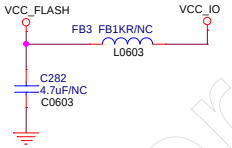
NAND FLASH

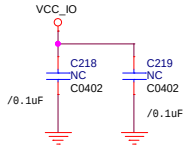


INAND



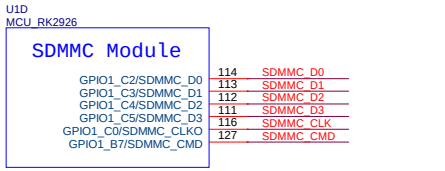
OPTION3
eMMC

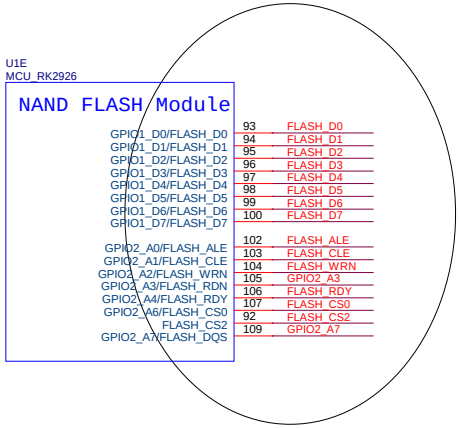




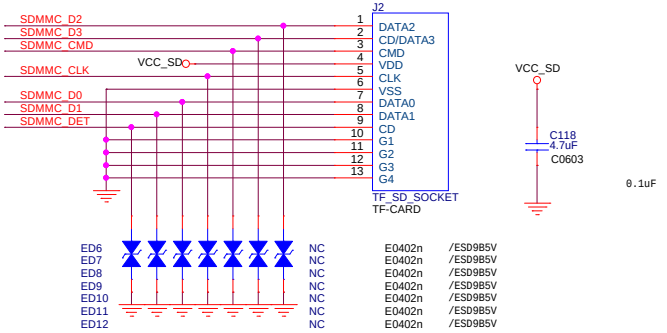
OPTION1
IF not use,pls NC all the comment

RK2926-E





TF CARD



OPTION

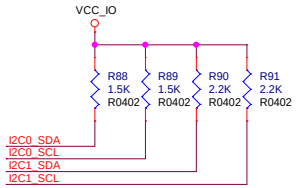
Rockchip 瑞芯微电子

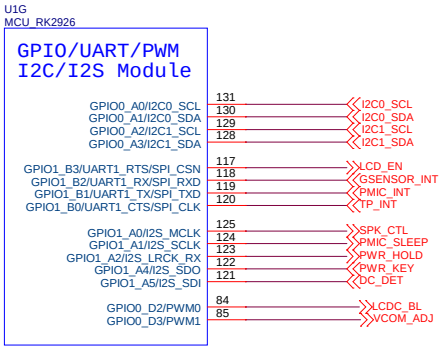
Title: Flash/TF card

File: 86V-2926 REV: 1.1

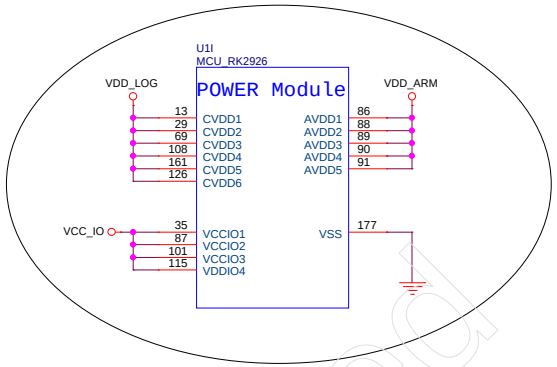
Create Date: Thursday, October 14, 2010 Page Num: 9

Modify Date: Friday, September 13, 2013 Page Total: 15



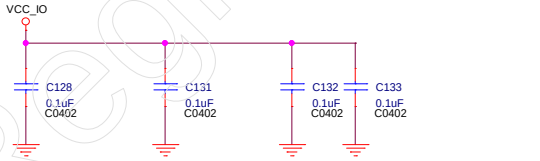


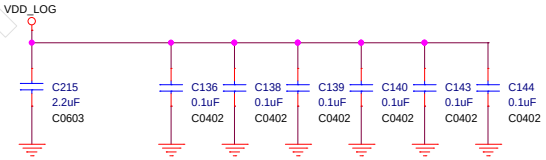
RK2926-G

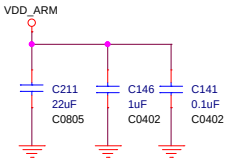


Note:
Place these filter capacitors under CPU.

RK2926-I

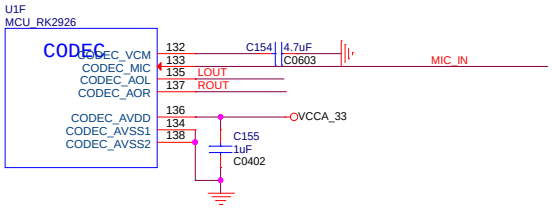




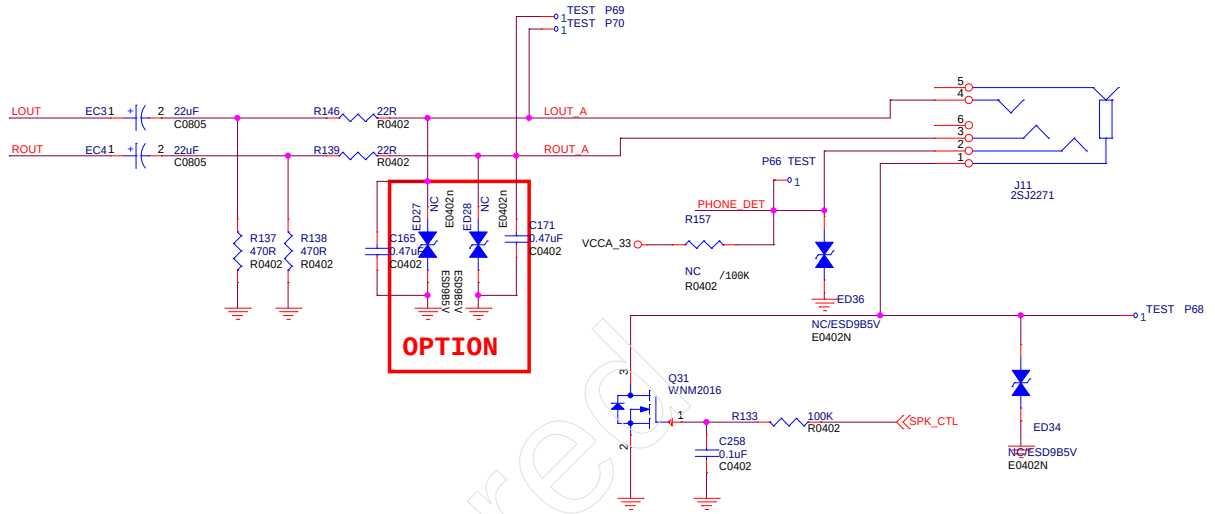


RK2928 CORE POWER FILTER

Rockchip 瑞芯微电子		
Title: GPIO/POWER		
File: 86V-2926		REV: 1.1
Create Date: Monday, October 18, 2010	Page Num: 10	
Modify Date: Friday, September 06, 2013	Page Total: 15	



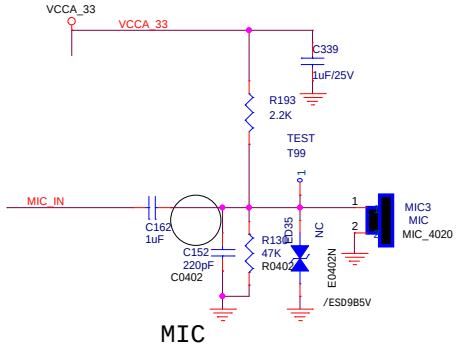
RK2926-F



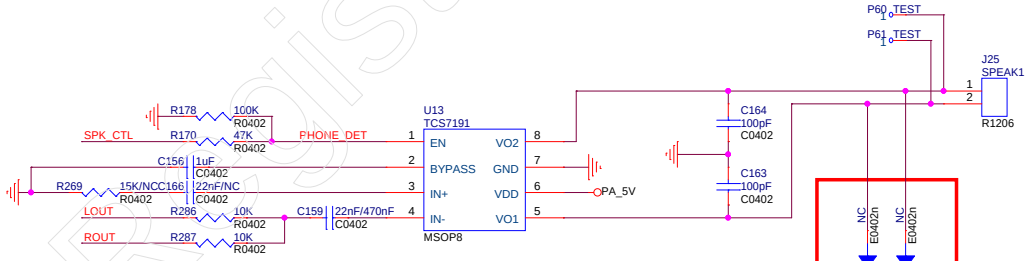
HEADPHONE

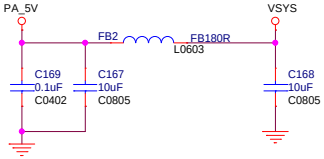
MIC :

*	C157	2.2nF	0R
*	C340	100pF	NC
*	Q25	8050	NC
*	Q26	8550	NC
*	C161	100pF	NC
*	C160	1uF	NC
*	R192	1M	0R
*	R195	1M	NC



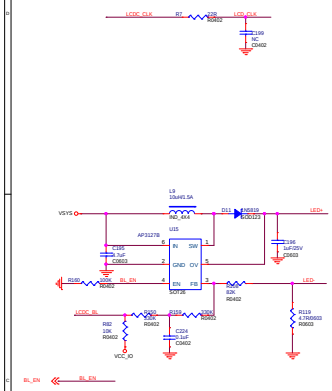
MIC

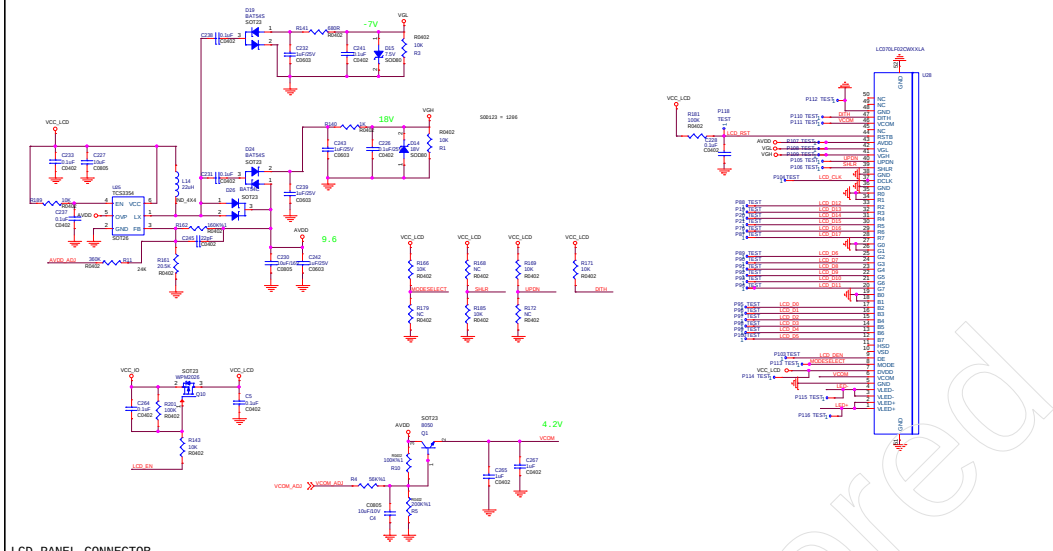




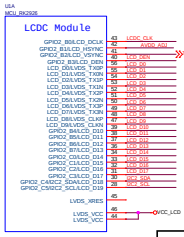
SPEAKER DRIVER

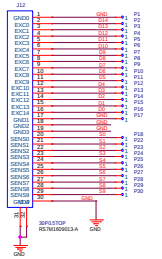
Rockchip 瑞芯微电子		
Title: AUDIO		
File: A710_RK2928L_1CELL_V10		REV: 1.1
Create Date: Friday, May 04, 2012		Page Num: 11
Modify Date: Friday, September 06, 2013		Page Total: 15

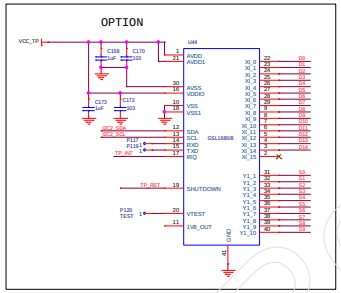


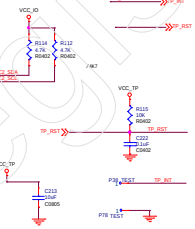


LCD PANEL CONNECTOR





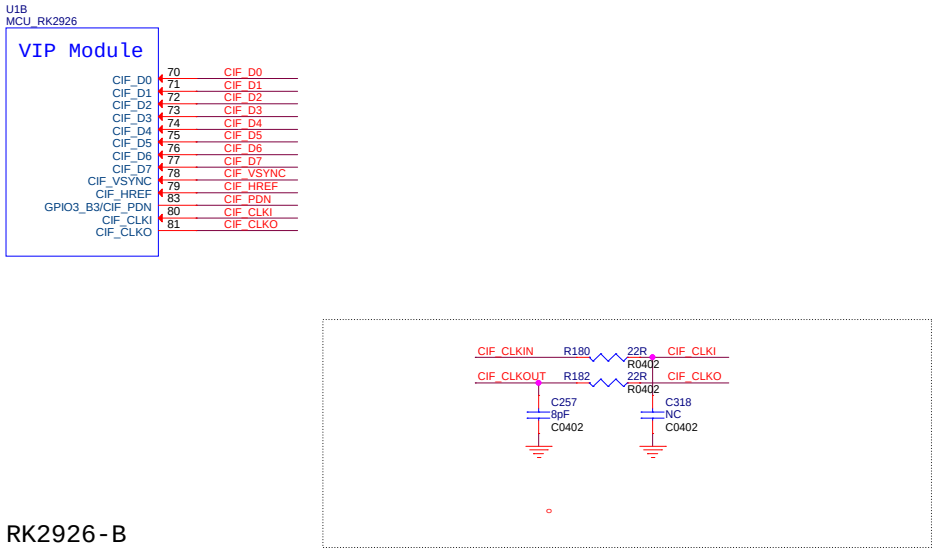




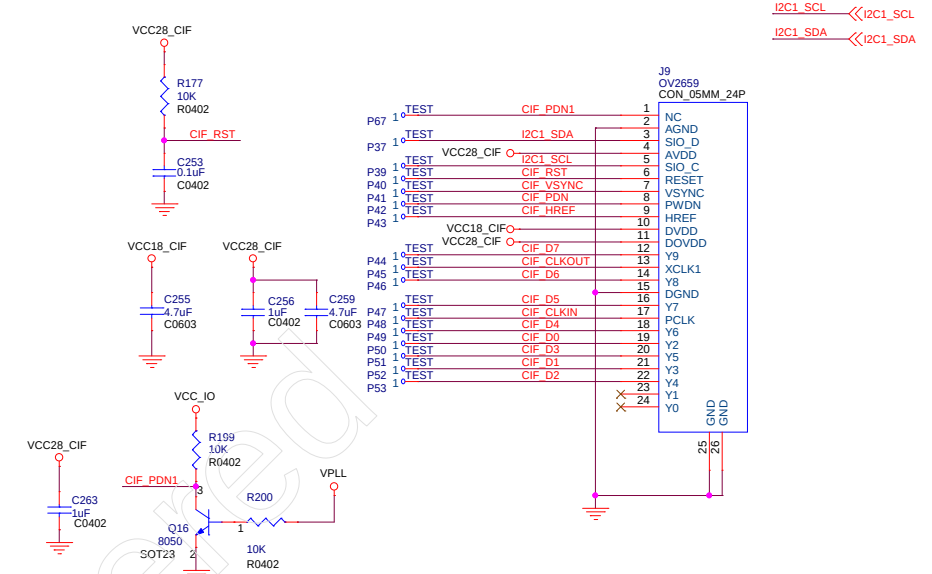
Correspondence between LCDC DATA and RGB

LCDC_D0	B2	LCDC_D9	G5
LCDC_D1	B3	LCDC_D10	G6
LCDC_D2	B4	LCDC_D11	G7
LCDC_D3	B5	LCDC_D12	R2
LCDC_D4	B6	LCDC_D13	R3
LCDC_D5	B7	LCDC_D14	R4
LCDC_D6	G2	LCDC_D15	R5
LCDC_D7	G3	LCDC_D16	R6
LCDC_D8	G4	LCDC_D17	R7

Rockchip	
Title:	LCD/TP panel
File:	86V-2926
REV:	1.1
Create Date:	Friday, October 15, 2010
Page Num:	13
Modify Date:	Friday, September 13, 2013
Page Total:	15

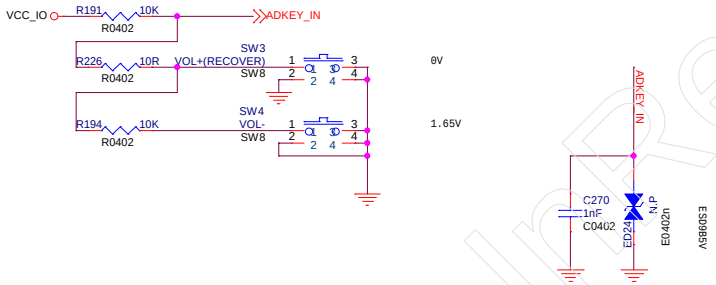


RK2926-B



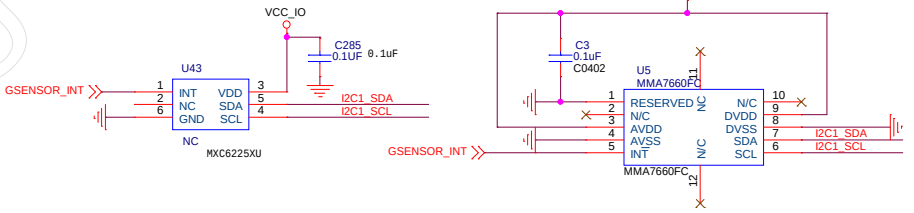
FRONT&REAR CAMERA

KEY BAORD



When the system power on, the Adkey_in level is 0V,
RK2928 enter into loader mode.

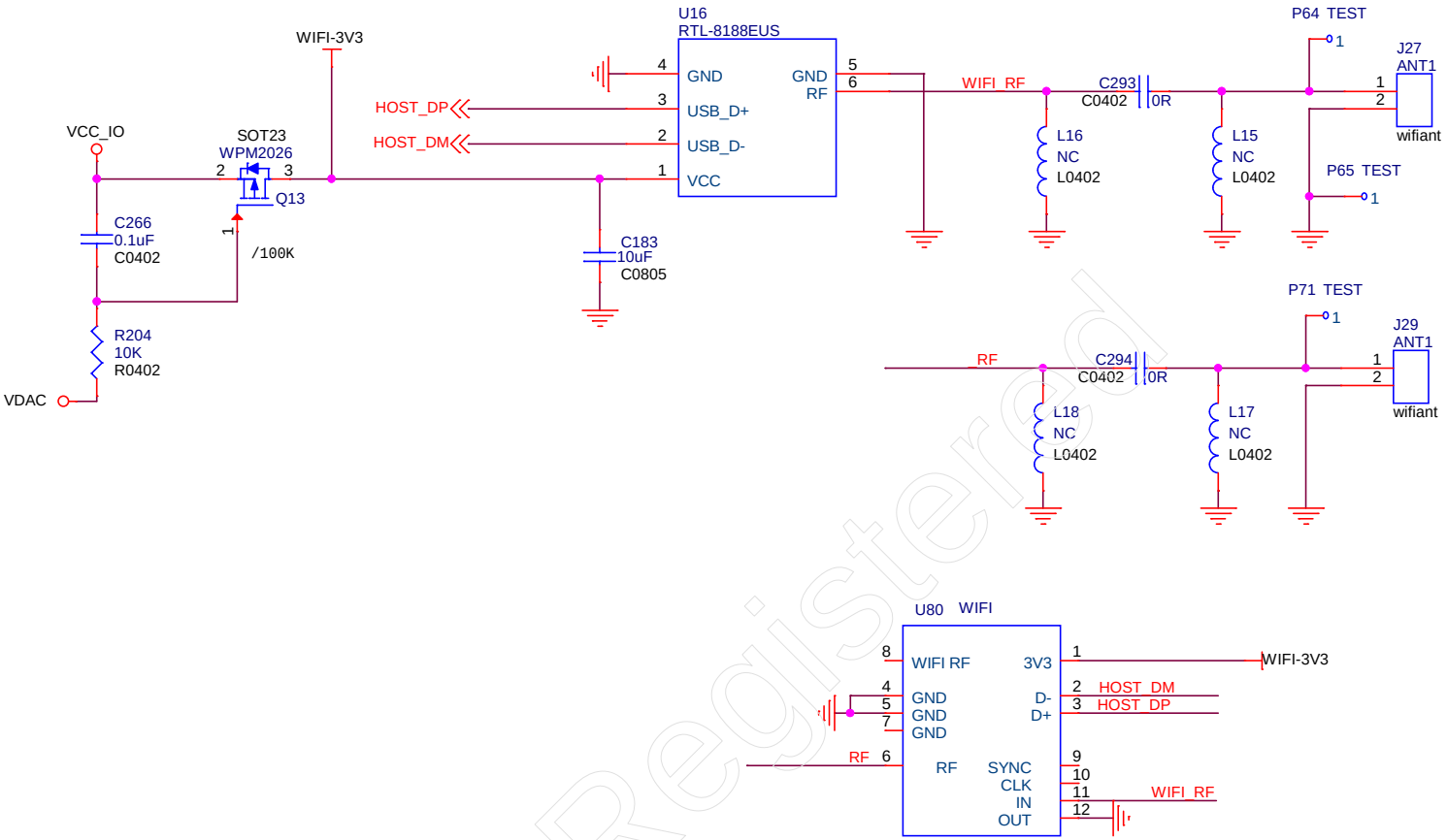
3D G-Sensor



Note:
The first pin of G-sensor must be
place on the lower left corner of PCB.

Rockchip 瑞芯微电子

Title: Camera/G_Sensor/Key		
File: 86V-2926		REV: 1.1
Create Date: Friday, October 15, 2010		Page Num: 14
Modify Date: Friday, September 06, 2013		Page Total: 15



Rockchip 瑞芯微电子	
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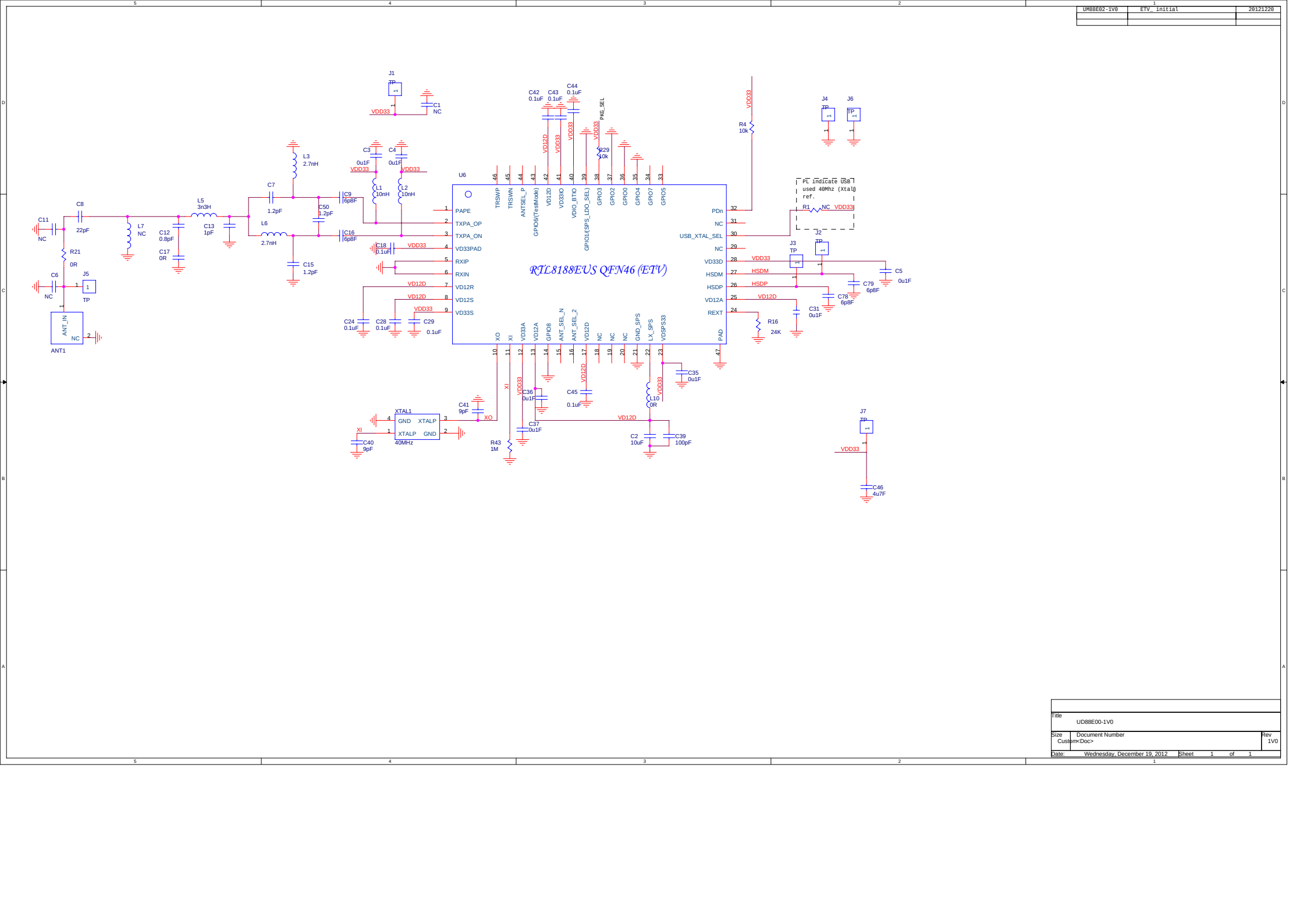

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