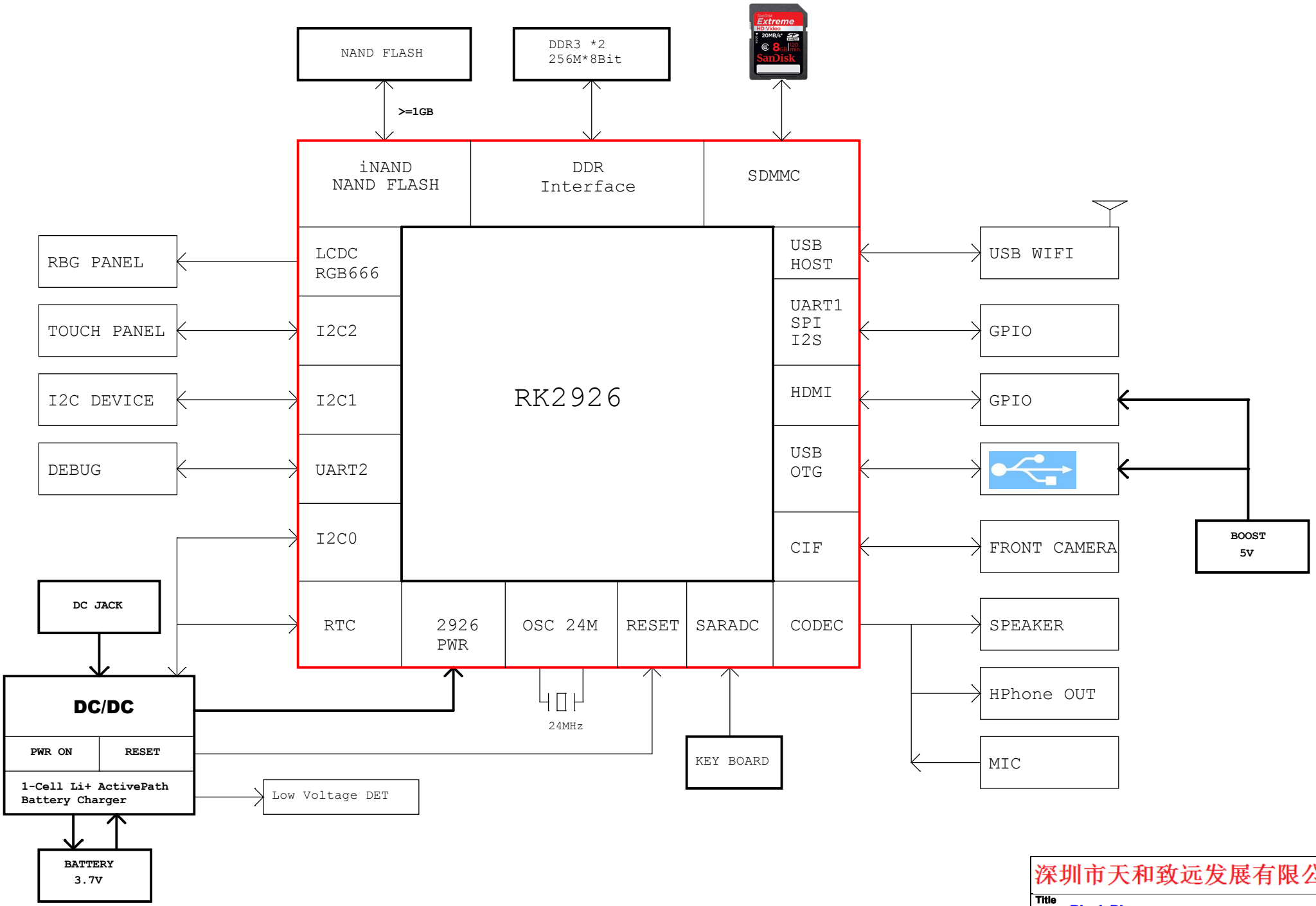
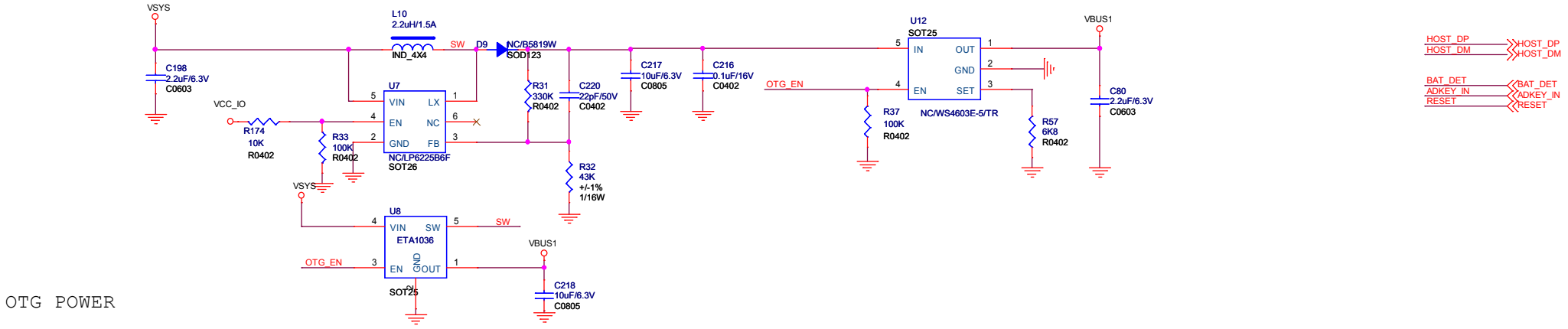
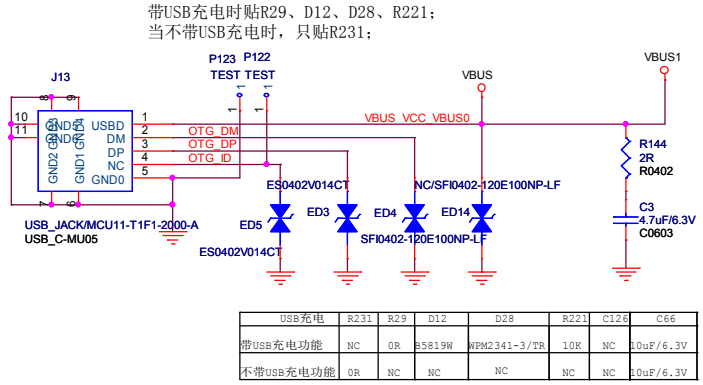


深圳市天和致远发展有限公司

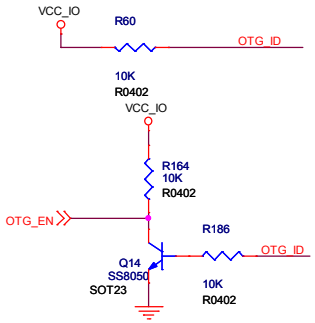
Title	Block Diagram	
Size A3	File TH_AK47_V3	Rev V3
Date: Thursday, December 04, 2014	Sheet 3 of 15	



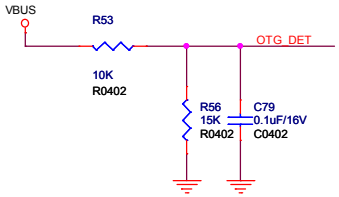


USB充电	R231	R29	D12	D28	R221	C126	C66
带USB充电功能	NC	0R	B5819W	WPM2341-3/TR	10K	NC	10uF/6.3V
不带USB充电功能	0R	NC	NC	NC	NC	NC	10uF/6.3V

USB OTG CONNECTOR

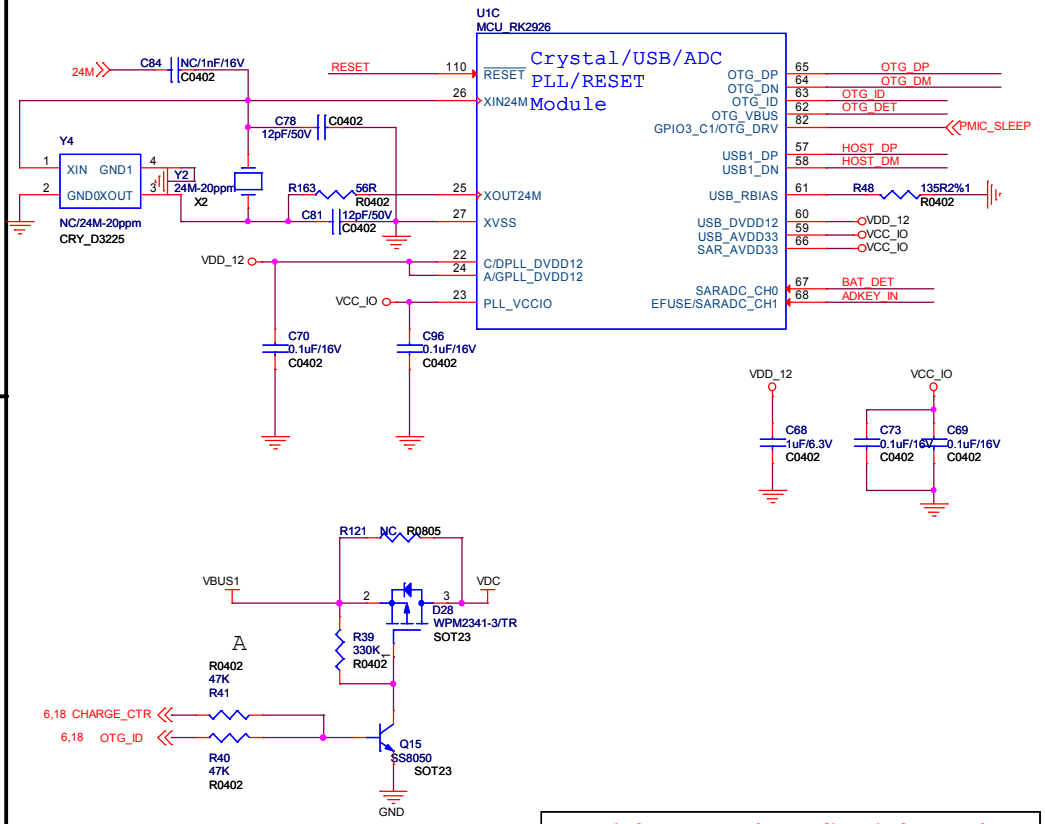


VIBRATION



USB_DET

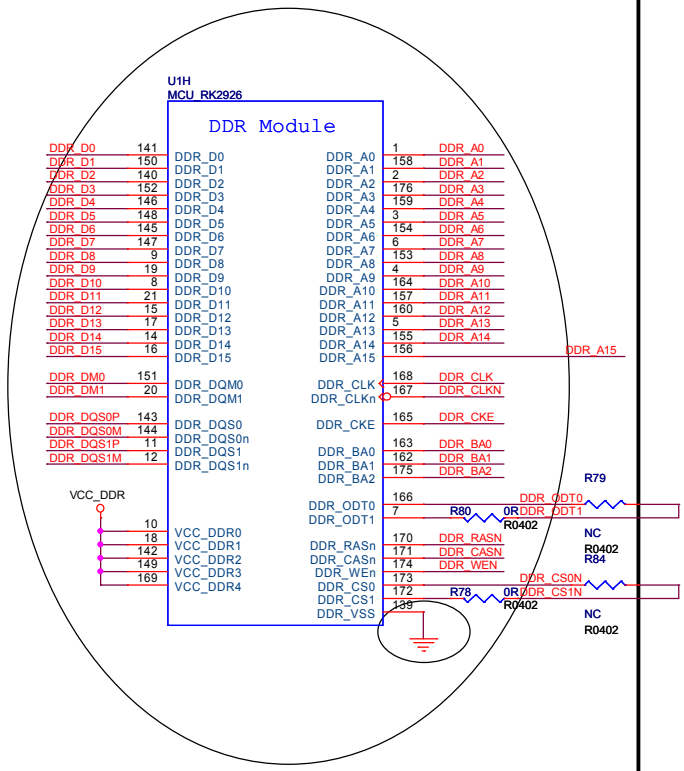
Note:
Adjusted the load capacitance
according to the crystal specification.



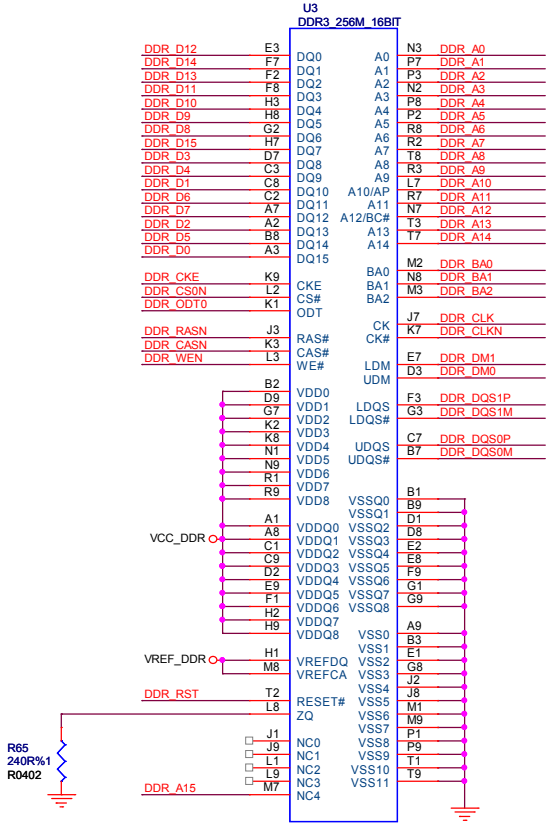
RK2926-C

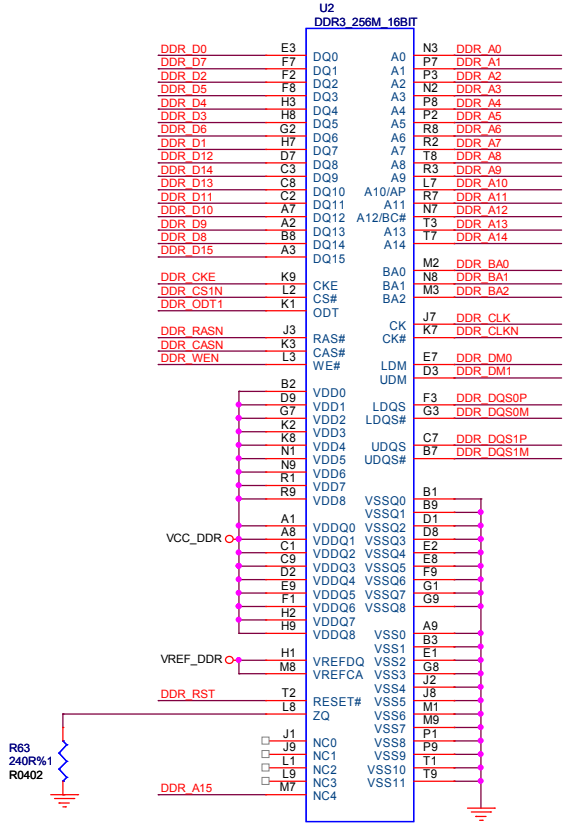
深圳市天和致远发展有限公司

Title	USB OTG/VIB	
Size A3	File TH_AK47_V3	Rev V3
Date: Tuesday, December 16, 2014	Sheet 7 of 15	

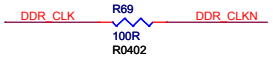


RK2926-H

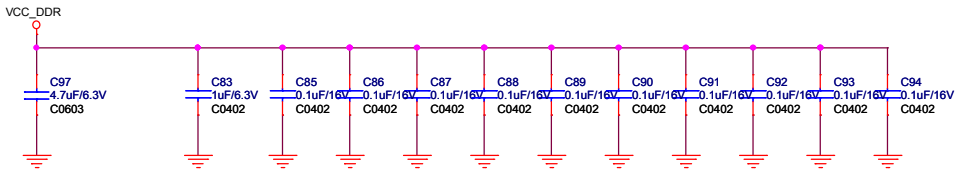


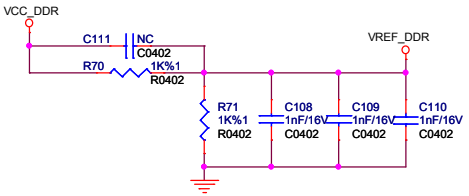


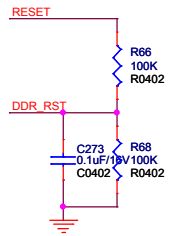
DDR3



CLK端接电阻放置于分叉端。



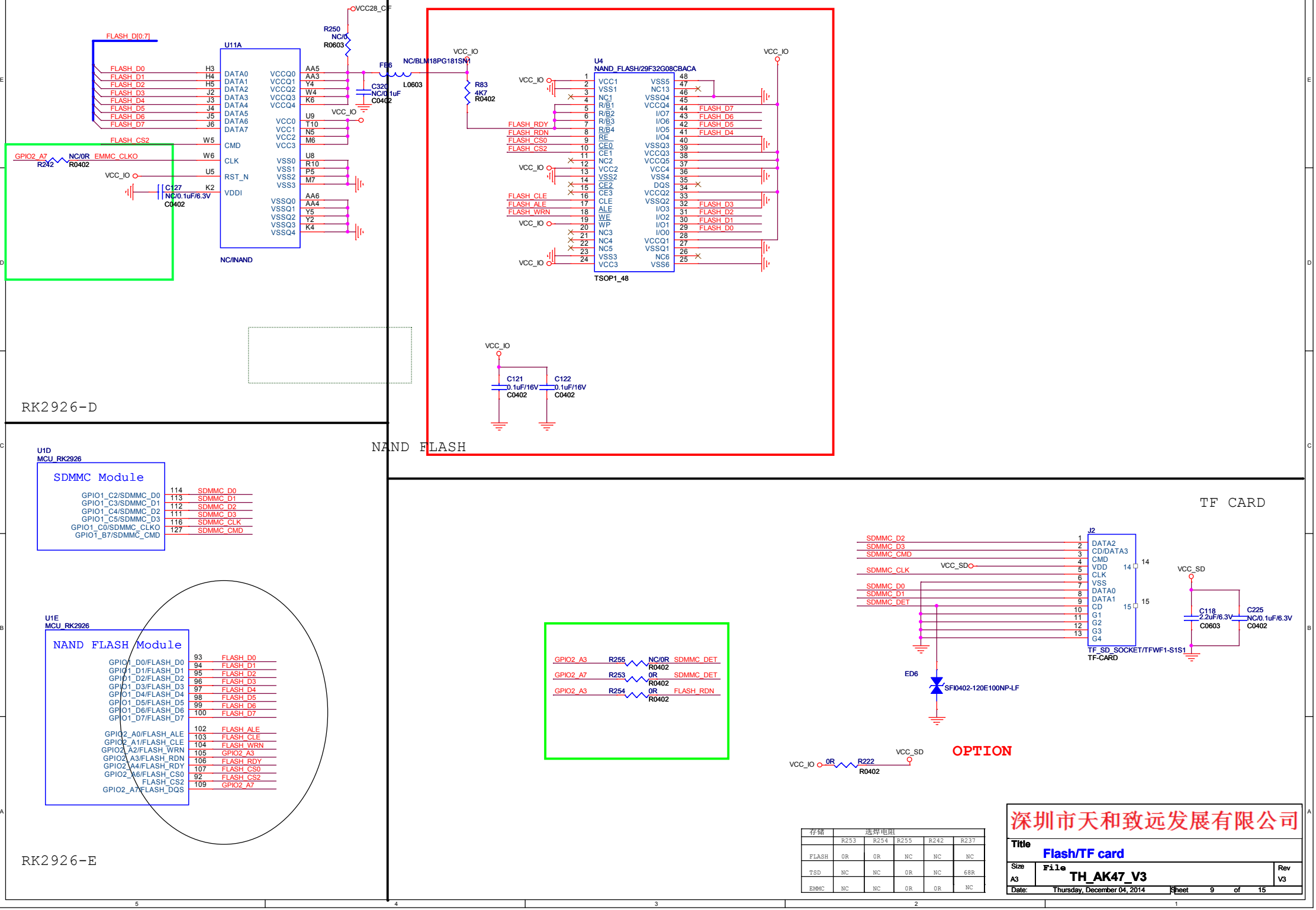




DDR FILTER

深圳市天和致远发展有限公司

Title	DDR3	
Size A3	File 86V_RK2926_V3.1	Rev V3.1
Date: Thursday, December 04, 2014	Sheet 8 of 15	

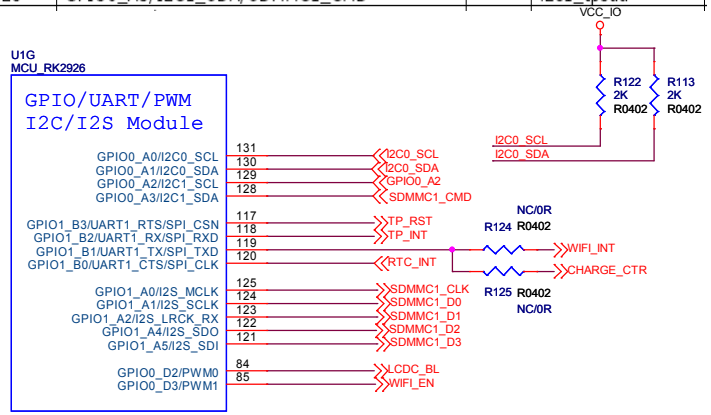


存储	选焊电阻				
	R253	R254	R255	R242	R237
FLASH	0R	0R	NC	NC	NC
TSD	NC	NC	0R	NC	68R
EMMC	NC	NC	0R	0R	NC

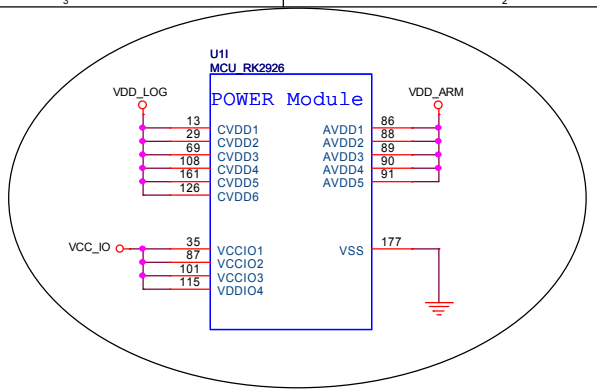
深圳市天和致远发展有限公司

Title	Flash/TF card	
Size A3	File TH_AK47_V3	Rev V3
Date: Thursday, December 04, 2014	Sheet 9 of 15	

121	GPIO1_A5/I2S_SDI/SDMMC1_D3		i2s_sdi
122	GPIO1_A4/I2S_SDO/SDMMC1_D2		i2s_sdo
123	GPIO1_A2/I2S_LRCK_RX/SDMMC1_D1		i2s_lrckrx
124	GPIO1_A1/I2S_SCLK/SDMMC1_D0		i2s_sclk
125	GPIO1_A0/I2S_MCLK/SDMMC1_CLKO/XIN_32K		i2s_mclk
127	GPIO1_B7/SDMMC0_CMD		mmc0_cmd
128	GPIO0_A3/I2C1_SDA/SDMMC1_CMD		i2c1_tpsda

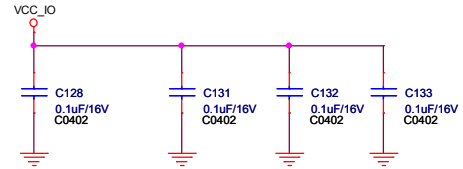


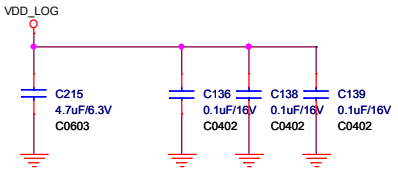
RK2926-G

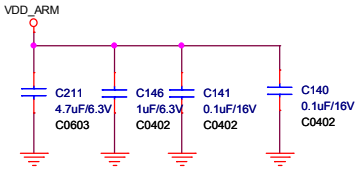


Note:
Place these filter capacitors under CPU.

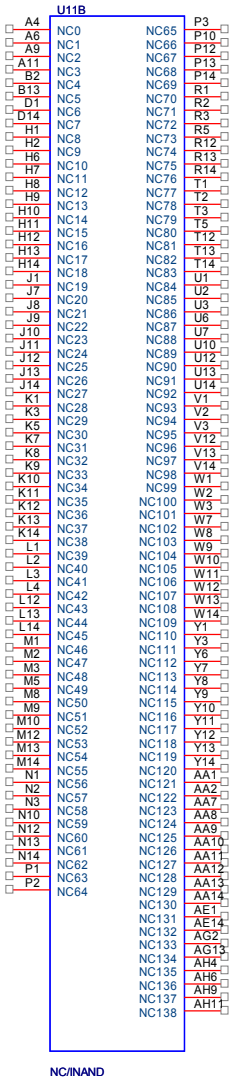
RK2926-I





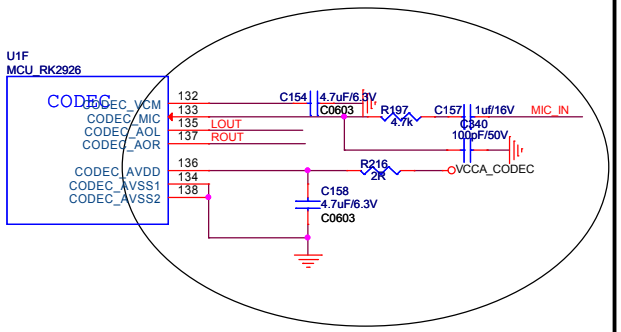


RK2926CORE POWER FILTER



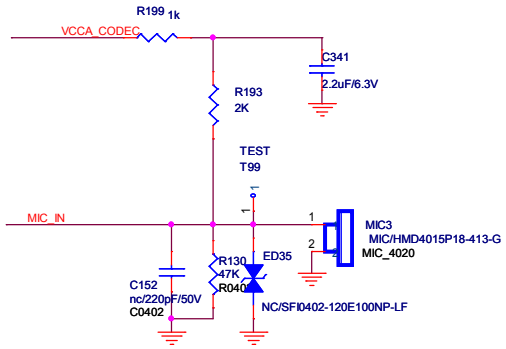
深圳市天和致远发展有限公司

Title	GPIO/POWER	
Size A3	File TH_AK47_V3	Rev V3
Date: Thursday, December 18, 2014	Sheet 10 of 15	

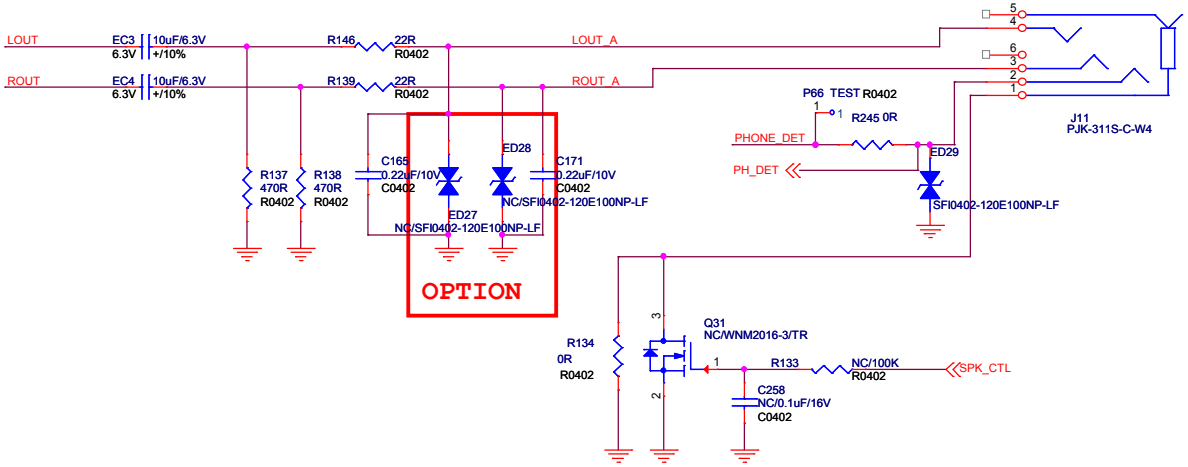


RK2926-F

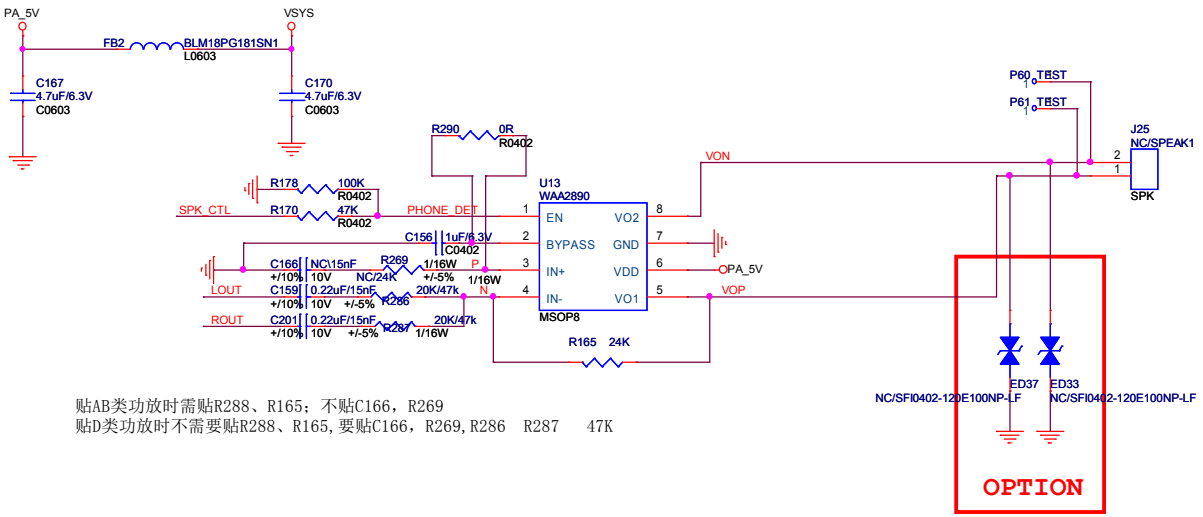
MIC



MIC



HEADPHONE

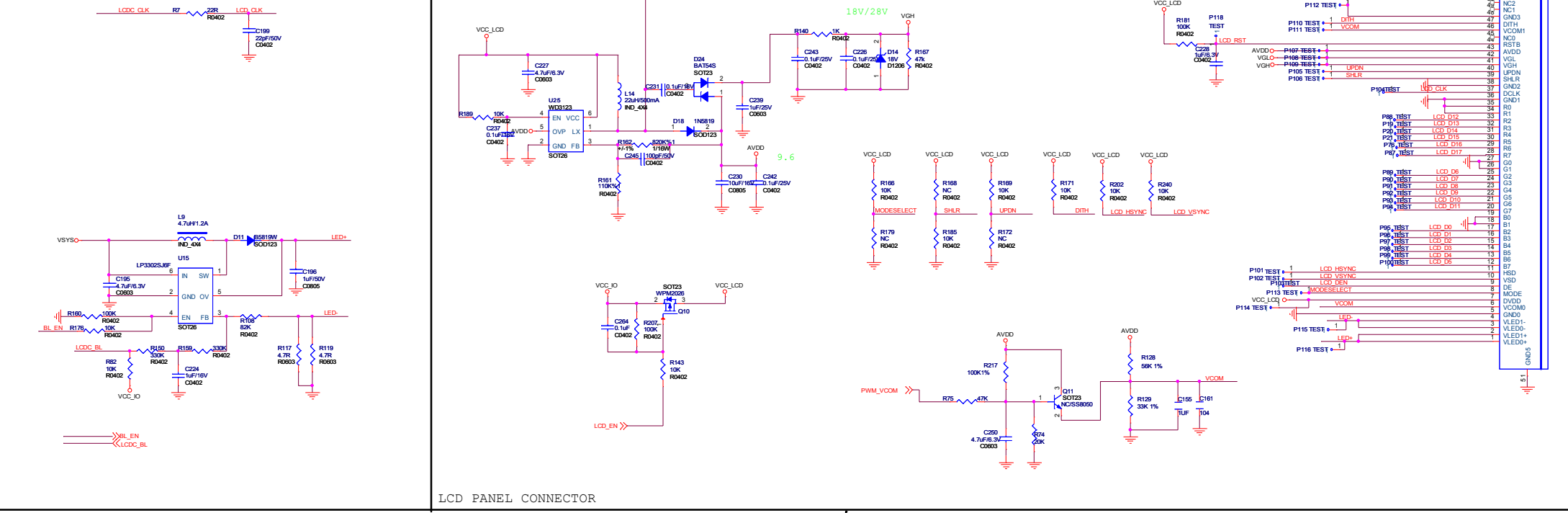


贴AB类功放时需贴R288、R165；不贴C166，R269
贴D类功放时不需要贴R288、R165，要贴C166，R269，R286　R287　47K

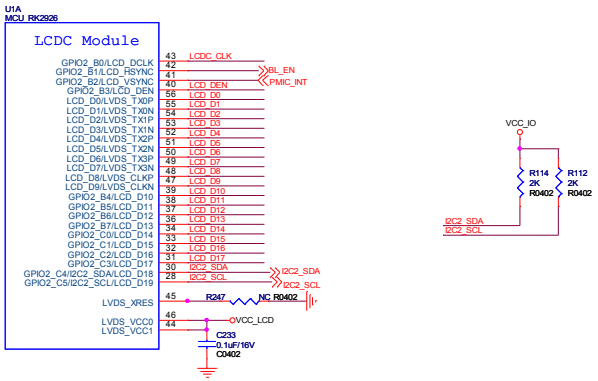
SPEAKER DRIVER

深圳市天和致远发展有限公司

Title	AUDIO	
Size A3	File TH_AK47_V3	Rev V3
Date: Monday, December 22, 2014	Sheet 11 of 15	



LCD PANEL CONNECTOR



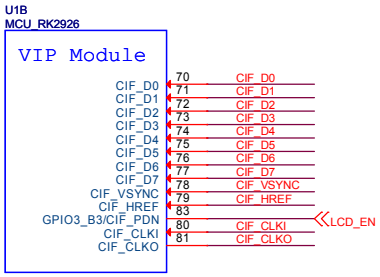
RK2926-A

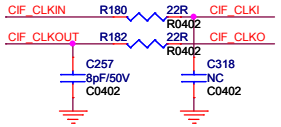
Correspondence between LCDC DATA and RGB			
LCDC_D0	B2	LCDC_D9	G5
LCDC_D1	B3	LCDC_D10	G6
LCDC_D2	B4	LCDC_D11	G7
LCDC_D3	B5	LCDC_D12	R2
LCDC_D4	B6	LCDC_D13	R3
LCDC_D5	B7	LCDC_D14	R4
LCDC_D6	G2	LCDC_D15	R5
LCDC_D7	G3	LCDC_D16	R6
LCDC_D8	G4	LCDC_D17	R7

TOUCH PANEL CONNECTOR

深圳市天和致远发展有限公司

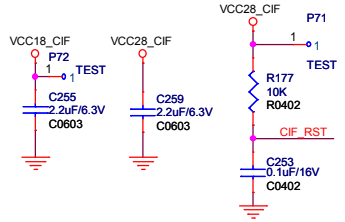
Title	LCD panel/Touch Panel	
Size: A2	File: TH_AK47_V3	Rev: V3
Date: Monday, December 22, 2014	Sheet 12 of 15	

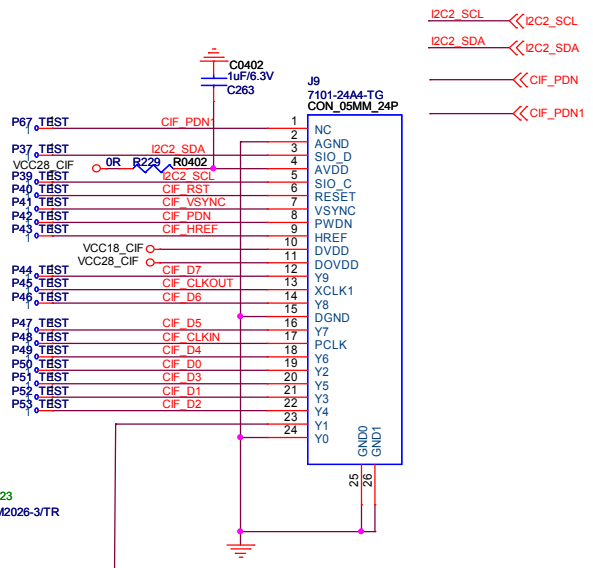


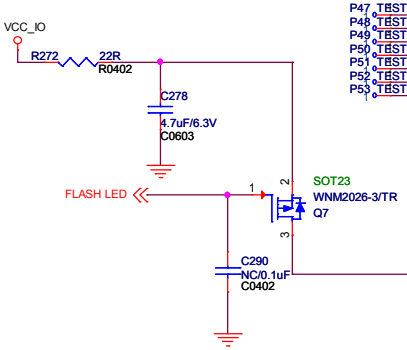


Note: 四个器件，根据调试结果，可选择是否NC。

RK2926-B

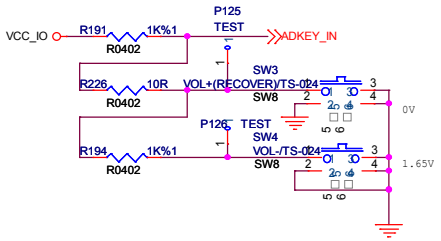


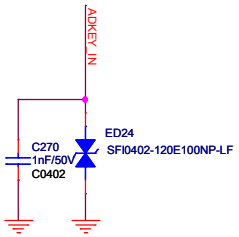




FRONT&REAR CAMERA

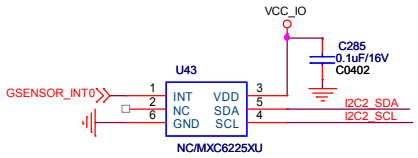
KEY BAORD

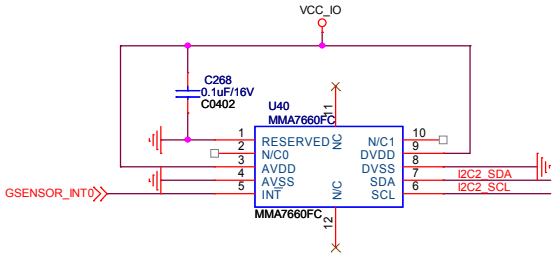


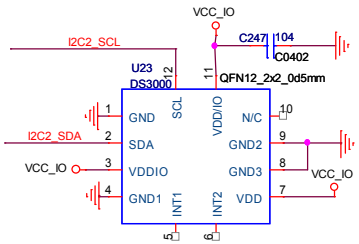


When the system power on, the Adkey_in level is 0V,

3D G-Sensor



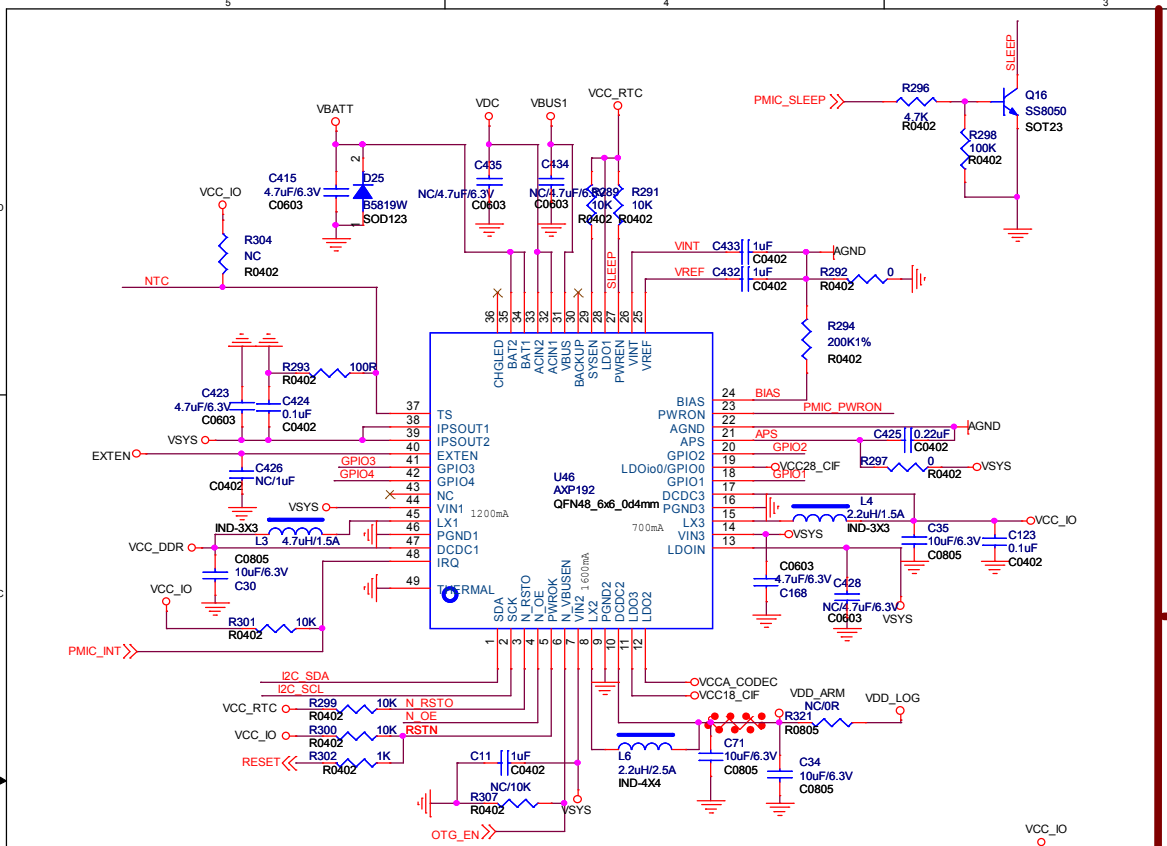




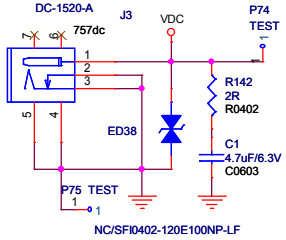
Note:
The first pin of G-sensor must be place on the lower left corner of PCB.

深圳市天和致远发展有限公司

Title	Camera/G_Sensor/Key	
Size A3	File TH_AK47_V3	Rev V3
Date: Tuesday, December 16, 2014	Sheet 13 of 15	

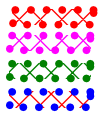


DC IN

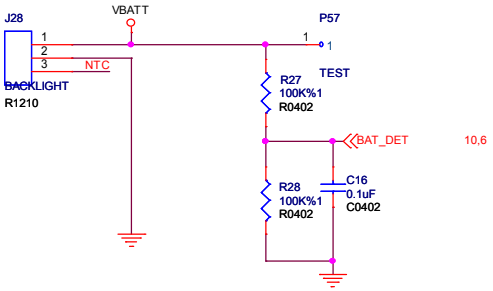


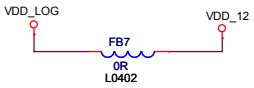
Note:
Please use a 5V DC.

PCB POWER WIRE WIDTH INDICATE



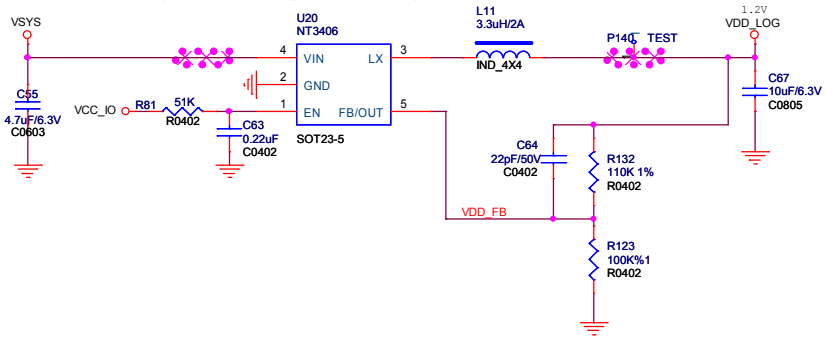
above 80 miles
above 50 miles
above 30 miles
above 12 miles
Under needs



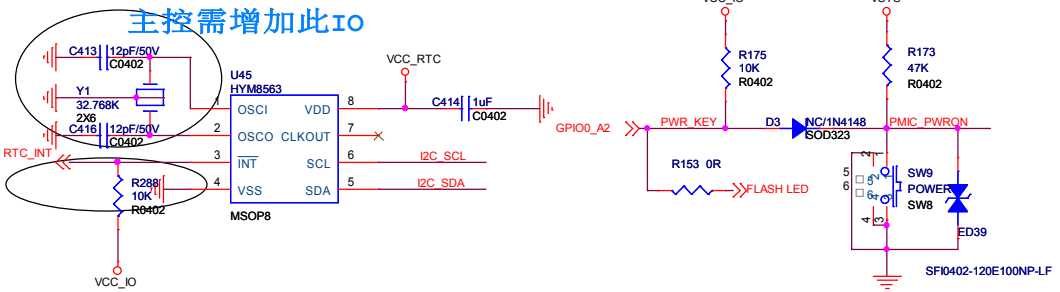


Note: Please use a 1.5A or above power supply IC.

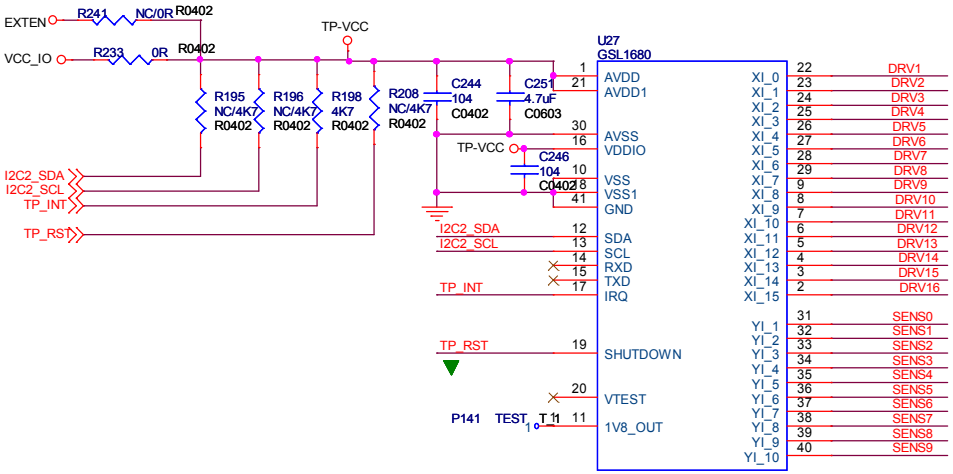
EXTEN 可作为外部增加电源模块的 EN 信号，并带有时序管理。



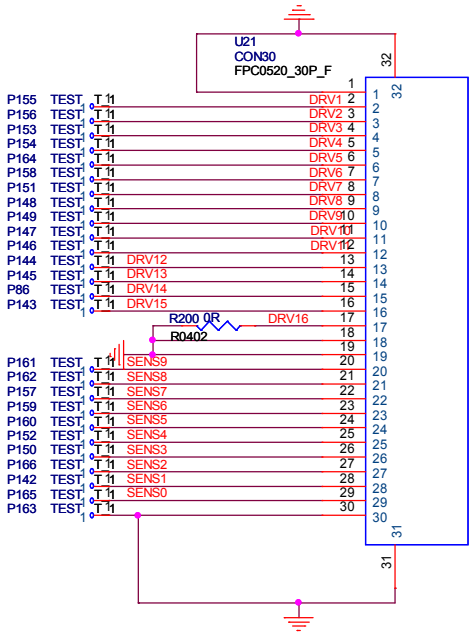
主控需增加此IO



Rockchip 瑞芯微电子	福州瑞芯微电子有限公司
Title: Power-RK818	
File: 86V-2926	REV: V0.1
Create Date: Sunday, September 28, 2014	Page Num: 13
Modify Date: Thursday, December 18, 2014	Page Total: 29



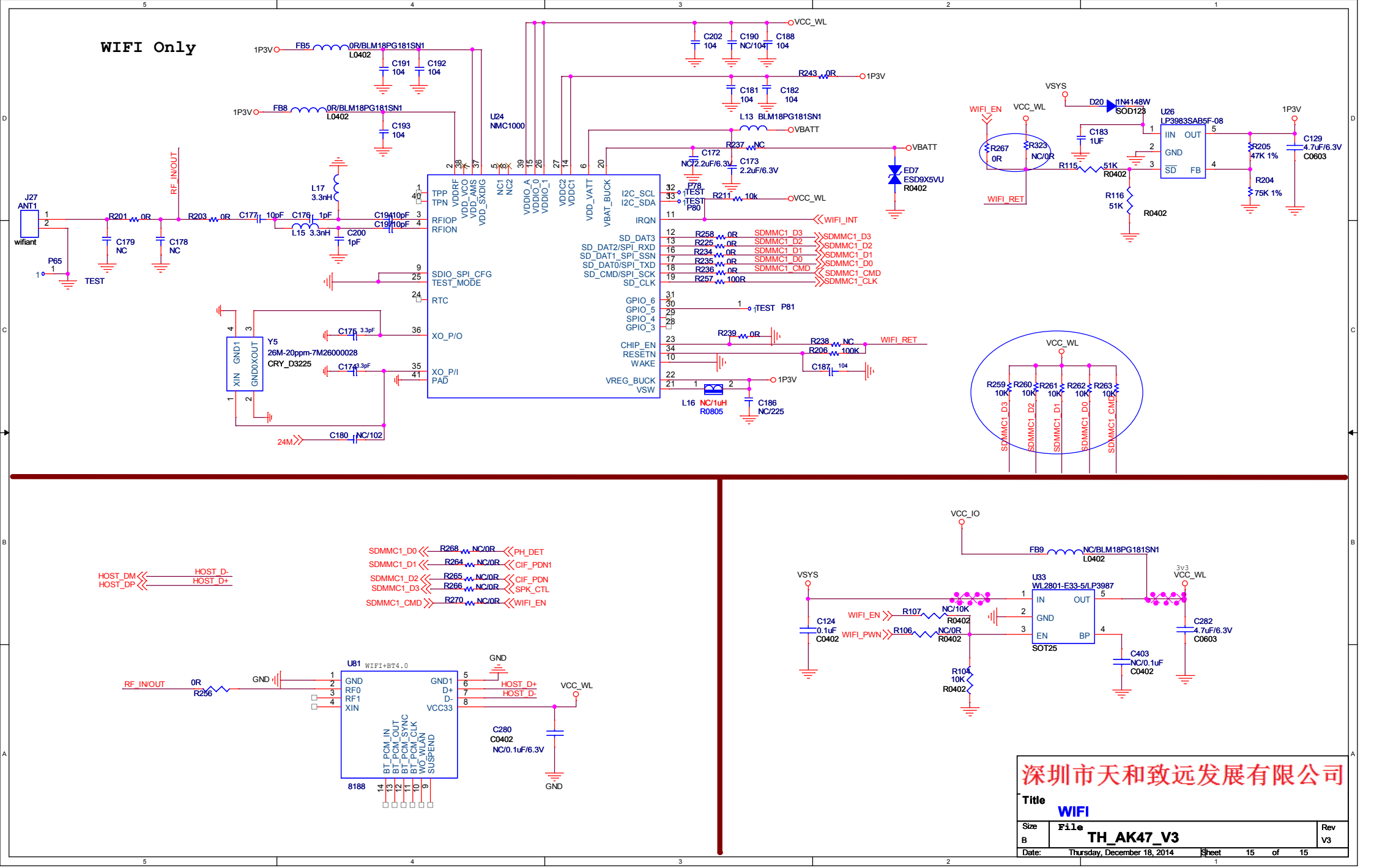
TOUCH PANEL CONNECTOR



TOUCH PANEL CONNECTOR

深圳市天和致远发展有限公司

Title: TP		
Size: B	File: TH_AK47_V3	Rev: V3
Date: Thursday, December 18, 2014	Sheet 14 of 15	


WIFI Only
U24
NMC1000
U81
WIFI+BT4.0
U26
LP3983SAB5F-08
U33
WL2801-E33-5/LP3987
Y5
26M-20ppm-7M26000028
CRY_D3225
J27
ANT1
wifiant
P65
TEST
L16 NC/1uH
R0805
ED7
ESD9X5VU
R0402
D20
1N4148W
SOD123
SOT25
8188
VCC_WL
VCC_IO
VSYS
VBATT
1P3V
GND
WIFI_EN
WIFI_RET
WIFI_INT
WIFI_PWN
RF_IN/OUT
HOST_DM
HOST_DP
HOST_D-
HOST_D+
PH_DET
CIF_PDN1
CIF_PDN
SPK_CTL
SDMMC1_D3
SDMMC1_D2
SDMMC1_D1
SDMMC1_D0
SDMMC1_CMD
SDMMC1_CLK
深圳市天和致远发展有限公司
Title
WIFI
File
TH_AK47_V3
Size
B
Rev
V3
Date:
Thursday, December 18, 2014
Sheet
15
of
15