


PMP7079E_QUAD

**Technical
Service Manual**

Product Model	PMP7079E_QUAD	
Photo		
System Physical Standard Configuration:		
Type	Details	Descriptions
Chipset	Chipset	Rockchips RK3188
CPU	Type	Quad Core ARM Cortex A9
	Number of cores	Quad
	Frequency	Up to 1.6GHz
GPU	Renderer	Mali 400 MP
	Number of cores	Quad
	Frequency	400MHz
	OPENGL	OPENGL ES 1.1/2.0
	Video Accelerator	
LCD	3D Accelerometer	yes
	Type	AHVA
	Screen Size	7.85-inch
	Colors	262K
	Brightness	300cdm
TP	Screen Resolution	768*1024
	Type	Capacitive Multi-Touch (5 Dots)
RAM	Process	Etching under yellow light
	Capacity	1GB DDR3
ROM Flash	Capacity	32G iNandFLASH
Battery	Type	Lithium-ion Polymer Battery
	Capacity	4700mAh/3.7V
	Video playback Time	6 hours (LCD 130Nit+80% vol)
	Audio playback Time	16 hours (speaker max)
	Standby Time	280 hours
Multi-media (Hardware encoding/decoding)	Phote Viewer	BMP, JPG, GIF, PNG
	Video Format	DAT, MPG, VOB, TS,AVI, MKV, MP4, MOV, 3GP, RM, RMVB,FLV,WEBM,WMV, ASF
	Audio Format	MP1, MP2, MP3,WMA,WAV,APE,OGG, OGA,FLAC,AAC, M4A
Camera	Front Camera	0.3MP
	Rear Camera	2MP
	Autofocus	N/A
	Rear Flash Light	N/A
Speaker	Size	Built-in 8Ω/0.7W speaker x 2
G-Sensor	Built-in	3-directions
Gyro Sensor	Built-in	yes
GPS	Built-in	N/A
	A-GPS	N/A
Compass	Built-in	yes
Proximity Sensor	Built-in	N/A
Light Sensor	Built-in	yes
Network Connections:		
Type	Details	Descriptions
2G	GPRS	N/A
	EDGE	N/A
3G	WCDMA	N/A
	HSDPA	N/A
	HSDA+	N/A
LTE	LTE FDD	N/A
Speed	Download speed	
	Upload speed	
Phone features	Phone calls & messaging support	N/A
Radio	FM Radio	N/A
	FM Transmitter	N/A
Wi-Fi	Wi-Fi Module	WIFI 802.11b/g/n
	Cryptographic Algorithms	WEP (40-bit、64-bit、128-bit), WPA (TKIP 128-bit), WPA2 (AES 128-bit)
	Max range of wireless connection	30m
	Wi-Fi Direct	Yes

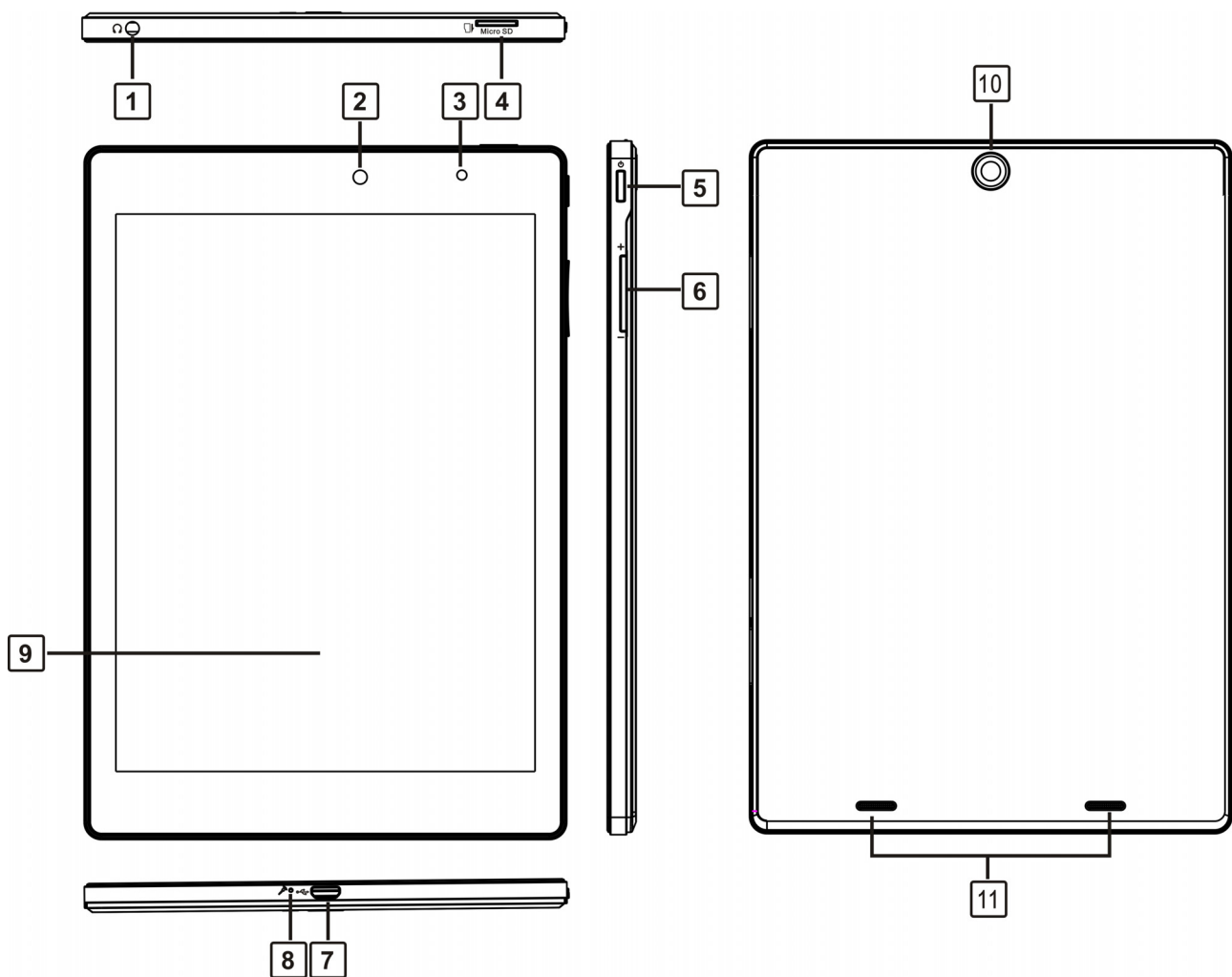
Bluetooth	Version	V4.0(HS)
	Cryptographic algorithms	N/A
	Max range of wireless connection	5m
Interface Configuration:		
Type	Details	Descriptions
SIM Card Slot	SIM Card Slot	N/A(optional) nano SIM Card
Memory card socket	External Memory	Support micro-SDHC/SDXC, up to 32GB
USB	Data Transfer	Micro USB 5pin * 1
Charge	Charge Connector	Micro USB, 5v/2A
Headset Jack	Music Output	3.5mm standard headphone jack
HDMI interface	Video Output	N/A
Software Configuration:		
Type	Details	Descriptions
Operating System	OS Version	Android 4.2
	Language	Multi-language support
Preinstalled Applications	Firmware	android4.2.2
	Flash	
	RU Folder Flash	
	Other System Software	
Look & Feel		
Material	Display Material	PC+ABS
	Body Material	PC+ABS
Color	Device Color	White+silver/black+black
Package and shipping information		
Package contents	Prestigio MultiPad	1 pcs
	QSG	1 pcs
	Legal and Safety Notices	1 pcs
	Warranty card	1 pcs
	OTG Cable	1 pcs
	USB Cable	1 pcs
	Unswitchable adaptor	1 pcs
	EU plug	1 pcs
	UK plug	1 pcs
	Stickers for after-service	3 pcs
	Protective pouch	1 pcs
	Pouch Type	Sleeve Style
	Pouch Technology	
	Stylus	
Shipping information	Device size (mm)	200*136.5*8.3mm
	Device weight (g)	400g
	Gift Box Dimension(mm)	
	Carton Size(mm)	
	Qty Per Carton(pcs)	
	G.W Per Carton (kg)	
	Layers Per Pallet	
	Cartons Per Layer	
	Weight Per Pallet(kg)	
EAN	PMP7079D_WH_QUAD	8595248119727
	PMP7079D_BK_QUAD	8595248119734

PMP7079D QUAD BOM

NO.	Material number	Name	Specification	Parameter	Usage	Unit	Remark
1	0414080020002	Attached with a USB data cable	USB A-Female - Right Angle=Micro USB-Male [right angle, 150mm, with no ring, black]		1		
2	0414130020005	Attached with a USB power cable	USB-Male - Right Angle=Micro USB B(Logo printed on front)	2A,5V+-5%	1		
3	0437000020026	Holster	SMBD7806,MID Protective sleeve,PU+velvet,Black imitation		1		
4	1005000020043	Warranty Card	Prestigio,Warranty Card,V3.1		1		
5	1016000020087	Quick Guide	Prestigio,PMP7079D_QUAD,Quick Guide,V1.0	NR	1		
6	1019000020001	Legal and safe manual	Prestigio_MULTIPAD,Legal And Safety Notices,V3.2		1		
7							
8	0101010299999	Common PE bags	110*180mm,NA,NA	NR	1		Manual packing bags
9	0101050000002	Shrink film bags	270*380mm,V1.0	NR	1		Color box with shrink
10	0104020020195	gift box	Prestigio,PMP7079D_QUAD,V1.0	Gift packaging, gift box	1		
11	0105070020020	Cardboard sheet	220*210mm,Single B-watt, two-sided cattle card		0.1		Side of the outer box nailing pad
12	0105070020021	Cardboard sheet	465*220mm,Single B-watt, two-sided cattle card		0.2		Mat in carton
13	0107020020001	Other trays	1200*1000*135mm,4000Kg,Navy blueEPS+PET New material	Sichuan word flat, single	0.0017		Customer has specified tray manufacturers, air transport was 600 units / Torr, after a good overall size of the stacking tray: 1200*1000*1491mm
14	0108020020241	Printed Carton	Prestigio,PMP7079D,V1.0	Carton size: 478 * 230 * 110	0.1		Carton 10 units installed
15	0109000099936	Paper Corner	1270*60*60*5mm		0.0068		Each tray with four, and for the sides of the tray
16	0109000099961	Paper Corner	960*60*60*5mm		0.0102		Each tray with six, including four card on the top of the tray, put the tray at the bottom of the remaining two 1200 mm direction so as not to take the box was bad
17	1013010320018	Copperplate paper stickers	Lithium cargo label,120*110mm,Coated paper stickers	NR	0.22		Carton 1 (10 sets of equipment), each pallet 4 (600 units installed)
18	1013010320106	Copperplate paper stickers	SMB-D7018,T01,NR,NR,Color Sticker (diameter 4mm-green),NR,V1.0		1		According Machine color paste color box reserved for the position of the box
19	1013120000001	Blank stickers	T01,30*8mm,Coated paper stickers		3		When an attachment on the packaging
20	1013120000004	Blank stickers	BS013C,45*30mm,Consumers Yinlong PET		1		Paste color box placeholder
21	1013120020000	Blank stickers	BS033A,70*100mm,Coated paper stickers		0.2		Sticker Carton (10 units), each carton stickers 2
22	1013120020038	Blank stickers	BS046A,68*110mm,Coated paper stickers		0.02		Each tray 4 (600 units installed)
23							
24	0422010020076	Outsourcing-AC adapter	HKA01105021-XE,European standard, interchangeable	Direct plug-in,10.5W,100-240V	1		
25							
26	0224010020118	Built-in passive antenna	V099-019-A-2,FPC,2.4GHz~2.5GHz,Lead I-PEX	-1dBi,50R	1		
27	0226020120050	Irregular flexible circuit board	8570C,V1.0,2013.06.17	FPC,2 layer,0.4mm	1		
28	0226020120059	Irregular flexible circuit board	FPC-20130715-13(0.3mm,25p,S-shaped)		1		
29	0226020120061	Irregular flexible circuit board	FPC-20130715-12(0.3mm,35p,L-shaped with		1		
30	0227000020042	speaker	MA1609-2,0.7W 8QStripline,SUR0.8-4Y-White	20Hz~20KHz	1		
31	0802020020029	With the flat surface	0.5mm,6P,115mm,-40C~+80C,There polyline / Luen Yick	L2.5_L2.5,L3.5-L0_L3.5	1		
32	0226010020347	PCB circuit board	8572C,V3.0,2013.08.28	FPC,2 Layer,0.4mm	1		
33	0301020120048	PET protective film Alien	SMBD7806-H04,Screen protective film 0.05PET (multicolor)		1		Sticker Machine
34	1004000000012	Warranty seal	Eastern Europe Prestigio,PMP5570C,V1.0		1		Sticker on the circuit board screws suitable position
35	1013010220125	Plain paper stickers	SMB-D7018,T02,Eastern Europe		1		Stickers circuit board suitable location
36	1013120020055	Blank stickers	AU101DP11V8,10*5mm,Coated paper stickers		1		Hardware Version stickers
37	0309020020009	Different type sponge mat	SMBD7806-H07,Single, ordinary plastic, black	middle	1		
38	0311010020016	Rules insulation pad	D5*d2.7*1mm,Single back ordinary plastic, transparent	PC	5		
39	0602010020045	Irregular Poron	SMBD7806-H03,Speaker poron pad, ES, single back ordinary plastic, black		2		
40	0610020100031	Nickel Metal Screws	M1.6*2.5CMHNI(K=0.5 D=3 Resistant)		4		Lock horn cover
41	0610020120000	Nickel Machine Screw	M1.4*2CMHNI,(K=0.5 D=3.5 Resistant)		7		Lock headset plate (1) Lock Motherboard (4) Lock port plate (2)
42	0616010020152	botton plastic	SMBD7806-RE03,Power button, plating (internal stripping) +	ABS(PA757),94HB	1		
43	0616010020153	botton plastic	SMBD7806-RE04,Volume keys, plating (internal stripping),	ABS(PA757),94HB	1		
44	0616130020057	Cover plastic parts	SMBD7806-RE05,Horn cover, NR, black	ABS(PA757),94HB	2		

45	0616170120002	Die cutting lens plastic parts	SMBC8003-H04,Camera lens, single back 3M9448 glue,	PMMA	1		
46	0723000020429	Assembly Components	SMB-D7806,Back cover assembly (with WIFI / without flash,		1		
47	0607000020010	Speaker Network	SMBD7806-H02,0.1SUS304,Back 3M9448 glue, NR, black		2		
48	0608030000002	Copper nut	M1.6*2,Copper, knurling		4		4 melt in the shell by injection molding plant completed
49	0614010120008	Die cast metal trademark licensin	SMBD7018-H04,Eastern Metal trademark, W24.4 * L25mm (f	Pressure sensitive adhe	1		Affixed to the rear shell aluminum trademark licensing office
50	0616201520022	Middle cover plastic parts	SMBD7806-RE02,Middle shell (with WIFI), spray + screen,	PC-CH6410,V0	1		
51	0616390020003	Decoration of plastic parts	SMBC8003-RE04,Webcam decorative pieces, plating,	ABS,94HB	1		
52	0617090020057	Rear Panel Hardware	SMBD7806-PT06,Backshell aluminum (with WIFI, without		1		
53							
54	0705020020050	Bare battery pack	BT-D011G,2984136(Lithium polymer density - Peoples-	2.8V,4.28V,4A,IIC fuel c	1		
55							
56	0715000020070	Built-in camera	ZC-D7806-2035+0329 S1.0,CMOS,2MP&0.3MP,NR,YUV		1		
57							
58	0991150020134	EMI countermeasure functional c	SMB-D7806,EMI Measures Configuration		1		
59	0303010000024	Rules conductive fabric	NR,Sided conductive, single-sided adhesive, conductive		1		USB socket to the rear shell
60	0303010099884	Rules conductive fabric	Plain, two-sided conductive, single-sided adhesive, conductive adhesive,40*25mm,NA		1		Motherboard between shield and backshell
61	0304010020059	Rules conductive foam	Conductive foam, fully conductive, single-sided adhesive, 15*12*0.5mm,NR/Hong Fucheng		4		2 between the motherboard Shield and the screen, 2 between the motherboard head and tail and the rear shell
62							
63	7001180120011	[Semi] - Output Board	8571C(Nokia Headset Standard)		1		
64	0226010020328	PCB circuit board	8571C,V2.0,2013.08.12	FR4,2 layer,0.8mm	1		
65							
66	SMBD780620011	[Semi] - LCD Screen	SMB-D7806,LCD Screen & Touch Screen Module		1		
67	7008010120096	[Semi] - LCD Screen	AU080DP09V1	B080XAN02.0,with T-C	1		
68	0720020020011	LCD glass board	B080XAN02.0,AUO,8"&3:4 number		1		
69	0725000020012	LCD screen assembly	ZC78002A,Backlight		1		
70	0703010020070	Touchpad screen	7.85" ACE-CG7.8A-303(Black), capacitive,7.85"&4:3,With	40mm,0.3mm,41P,Posi	1		
71							
72	0610020100031	Nickel Metal Screws	M1.6*2.5CMHNI(K=0.5 D=3 Resistant)		4		Lock LCD
73	0617240020021	Bracket Hardware	SMBD7806-PT02,LCD Stand,0.5 Stainless steel plate		1		
74	0723000020442	Assembly Components	SMB-D7806,Front cover assembly, black		1		
75	0608030000002	Copper nut	M1.6*2,Copper, knurling		4		4 melt in front shell, completed by the injection molding plant
76	0616080020014	Light pipe plastic parts	SMBD7806-RE06,Sense of light guide light beam,	PMMA,94HB	1		
77	0616201120134	front cover plastic parts	SMBD7806-RE01,Front shell, NR, black	CH6410,94HB	1		
78							
79	0305010000018	Silicone Thermal Pad	Silicone Thermal PadTHERM-A-GAP	Soft silicone,3.0W/m.K	1		
80	0311020020017	different-shaped insulating mat	SMBD7806-H05,Board insulation pad, single back ordinary	PET,0.1	1		
81	0311020020018	different-shaped insulating mat	SMBD7806-H06,Power insulation pad, single back ordinary	PET,0.1	1		
82	0617160020062	Shield Hardware	SMBD7806-PT05,Power shield, 0.2 tinned iron		1		
83	0617160020063	Shield Hardware	SMBD7806-PT04,Motherboard shield, 0.2 tinned iron		1		
84							
85	SMBD780640020	[semi-finished product]-motherbo	SMB-D7806 Motherboard,No SMD Quad CPU(RK3188) Without battery with fuel gauge with Hall sensor with a light-sensitive with front 0.3MP rear 2MP with SDIO WIFI 1GB DDR 16GB NandFlash With a gravity sensor (MMA8452Q) 8557C,V3.0 Acetech,7.85"ACE-CG7.8A-303 black		1		
86	0226010020330	PCB board	8557C,V3.0,2013.08.14	FR4,6 layer,1.0mm	1		

Overview



1 Headphone Jack

2 Front Camera

3 Light Sensor

4 Micro SD Card Port

5 Power Button

6 VOL +/- Button

7 Micro USB Port

8 Microphone

9 Touch Screen





10 Back Camera

11 Speakers


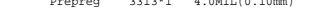




CONTENT INDEXING

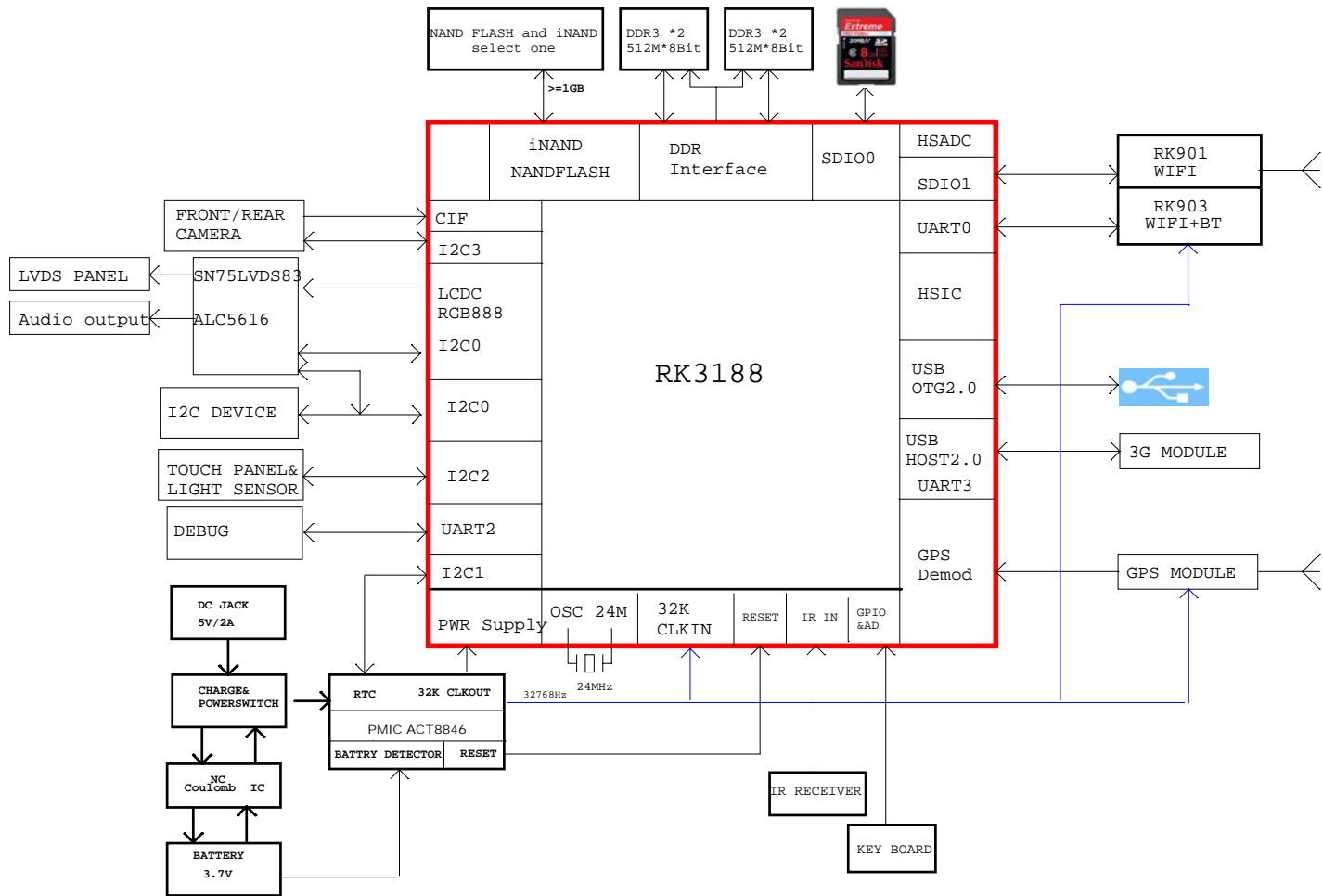
01. INDEX
02. Block Diagram
03. SYSTEM POWER DIAGRAM
04. DC/CHARG
05. SYSTEM POWER
06. USB OTG/VIB
07. DDR3
08. FLASH/TF CARD
09. GPIO
10. AUDIO
11. LCD PANEL
12. TOUCH PANEL
13. HDMI
14. CAMERA/SENSOR/KEY
15. WIF/BT
16. AMP/EXP
17. Modify note

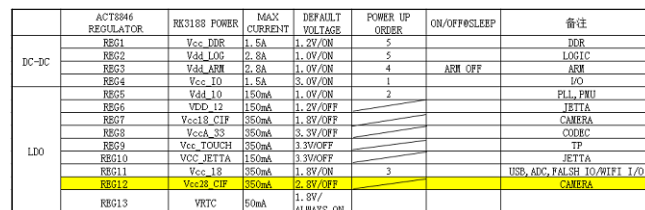
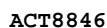
PCB POWER WIRE WIDTH INDICATE

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

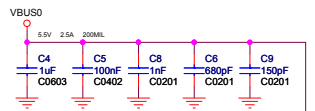
6 LAYERS PCB STACK

TOP		Hoz(18um) + plating copper(18um)
GND		1oz(35um)
POWER(S1)		1oz(35um)
	Adjust	
S1(S2)		1oz(35um)
GND(POWER)		1oz(35um)
S2(BOTTOM)		Hoz(18um) + plating copper(18um)

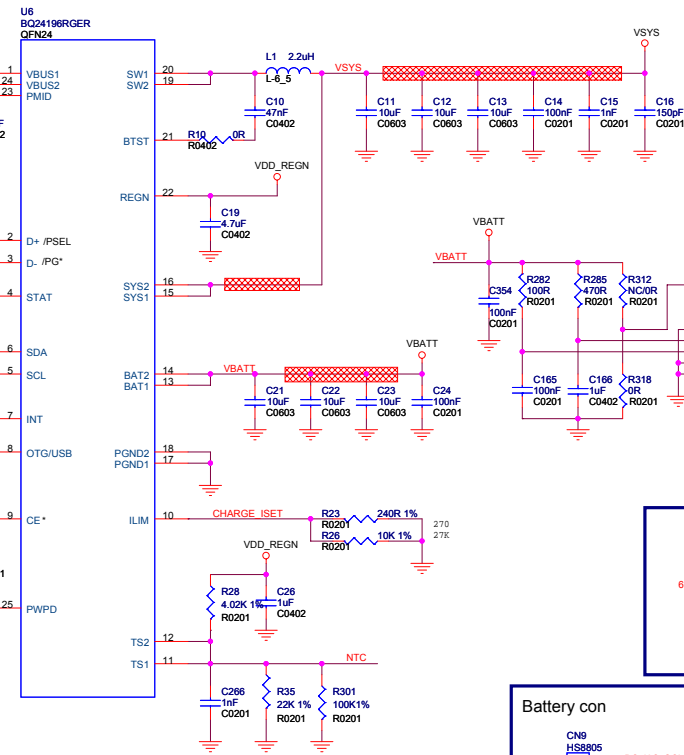




POWER DIAGRAM

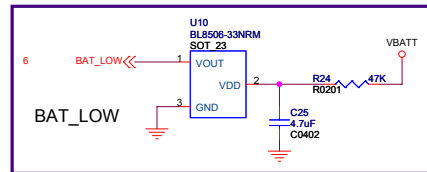
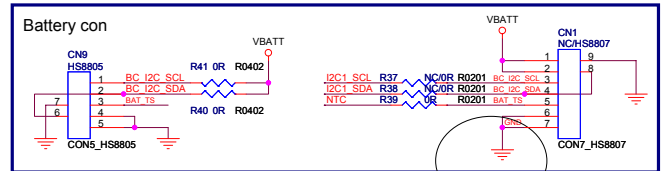
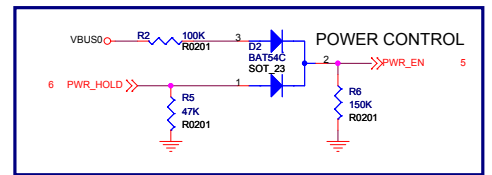
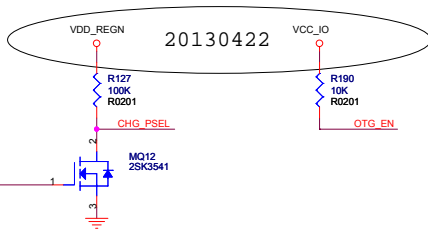
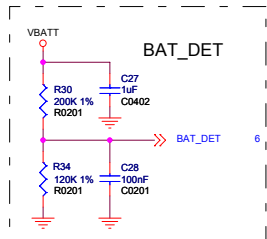


BATTERY CHARGER

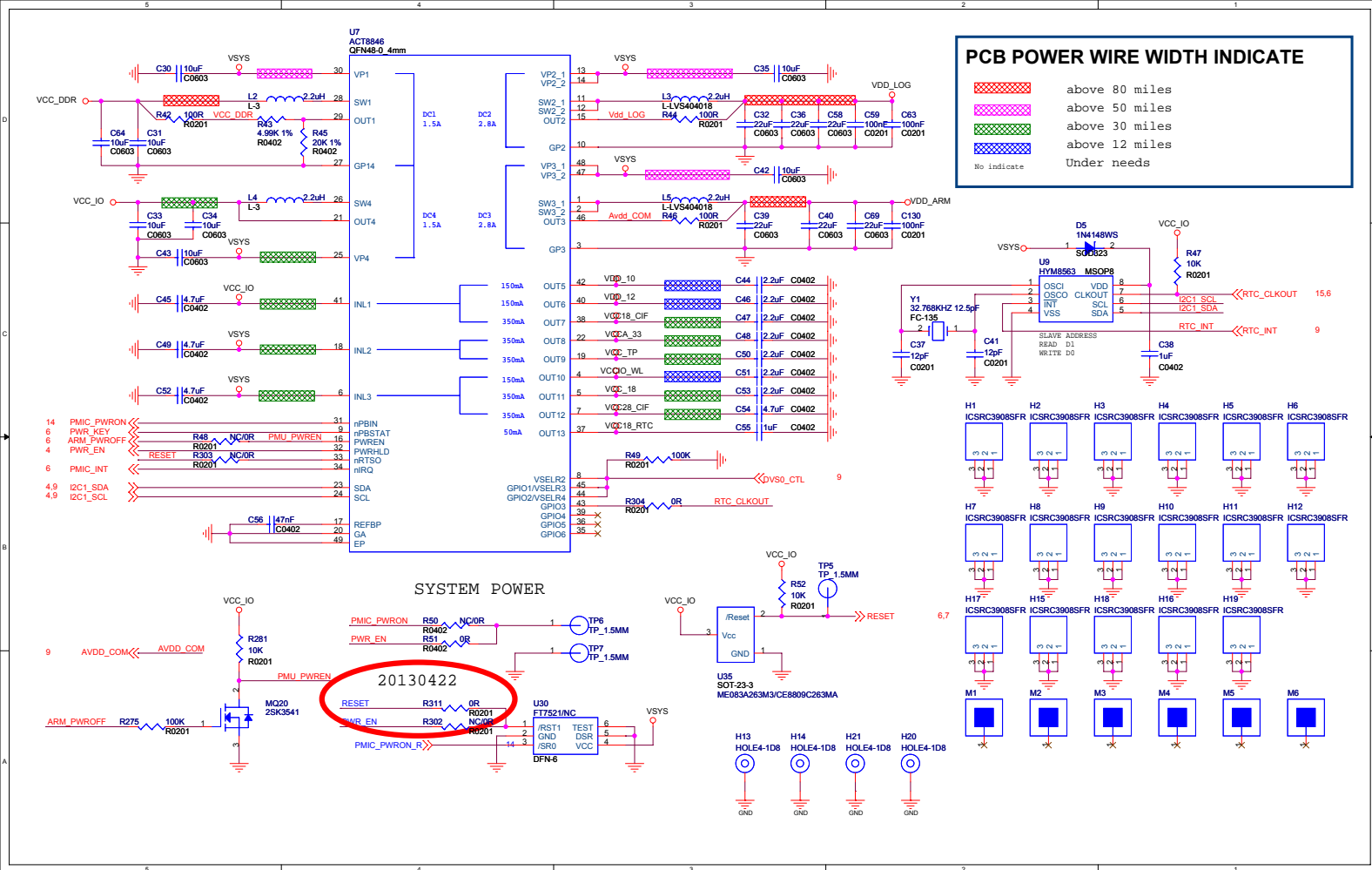


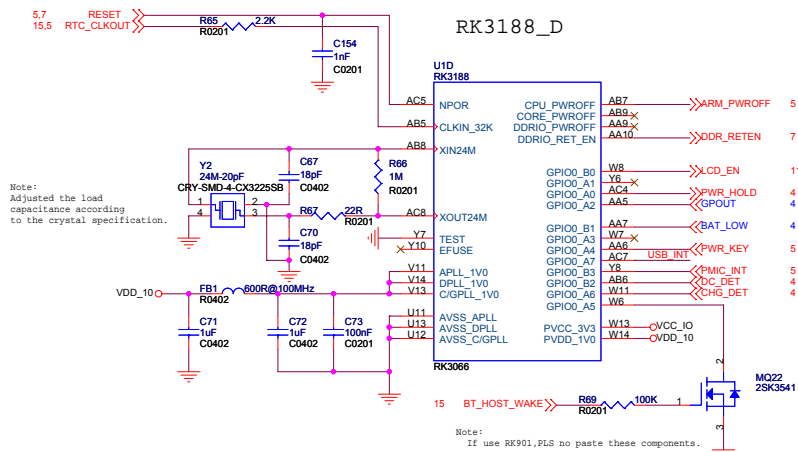
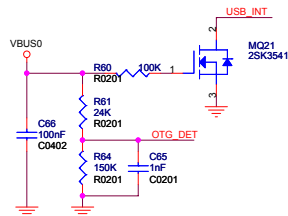
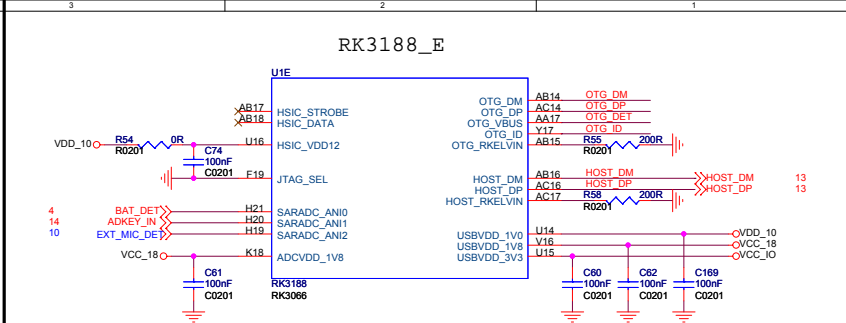
PCB POWER WIRE WIDTH INDICATE

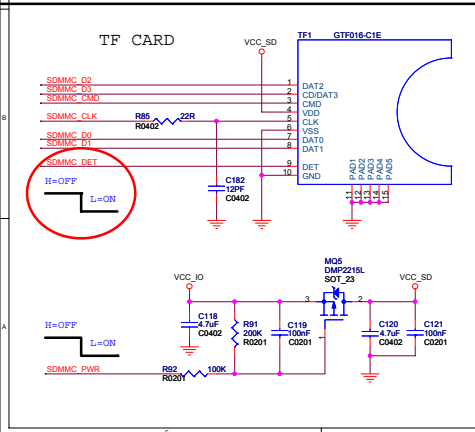
	above 80 miles
	above 50 miles
	above 30 miles
	above 12 miles
No indicate	Under needs

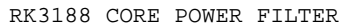
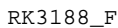
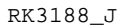


20130422

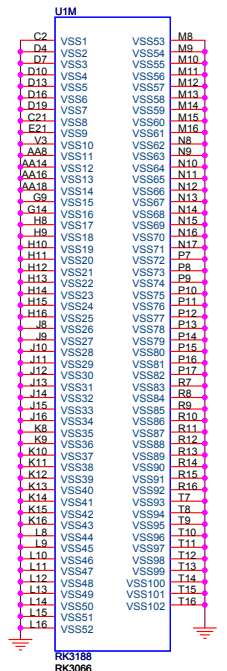
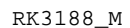


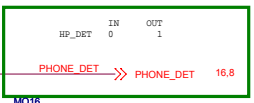
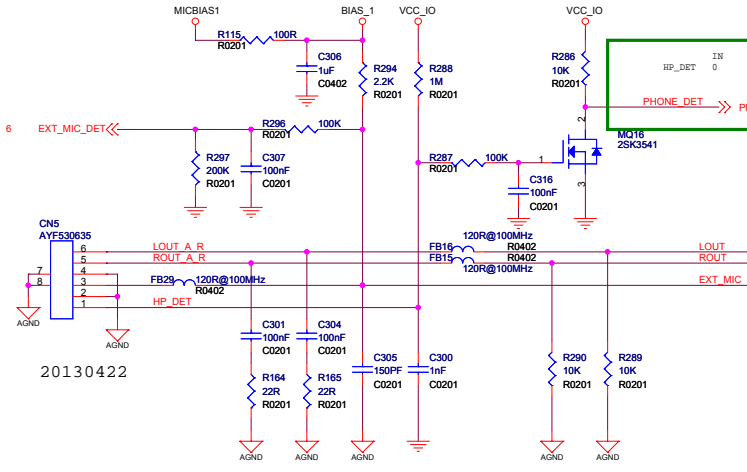
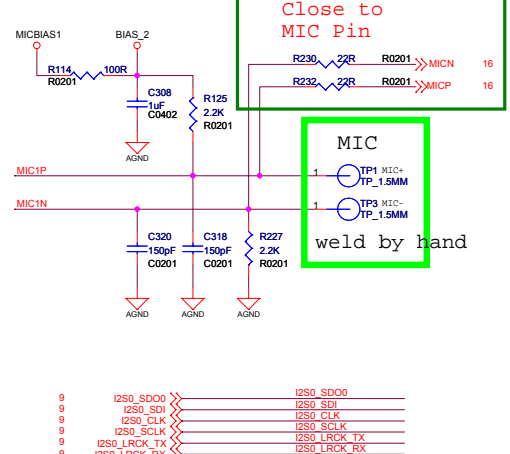
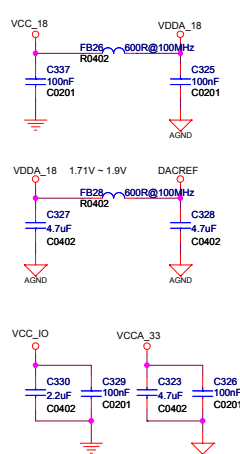
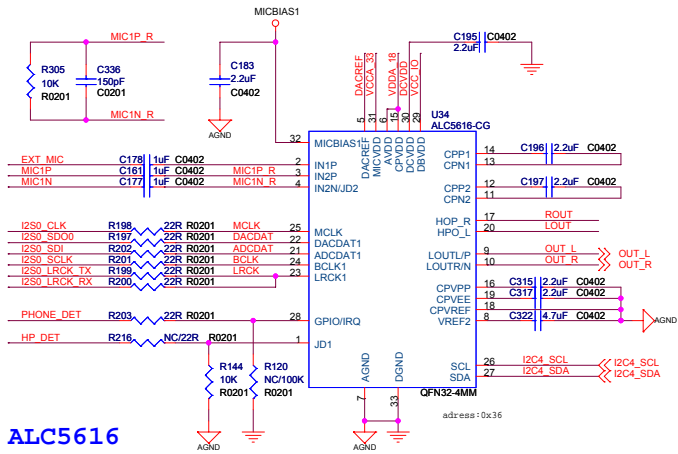


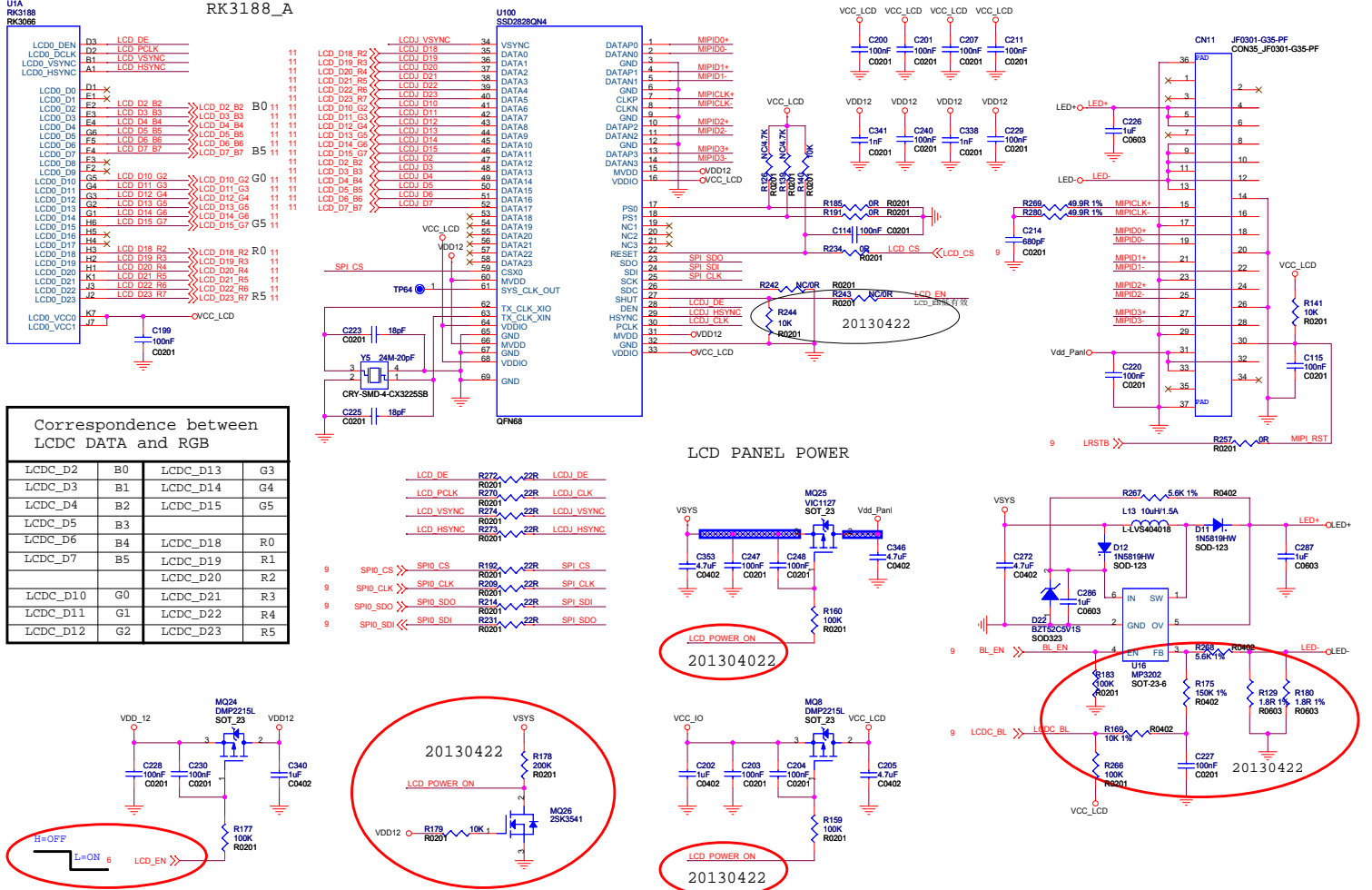


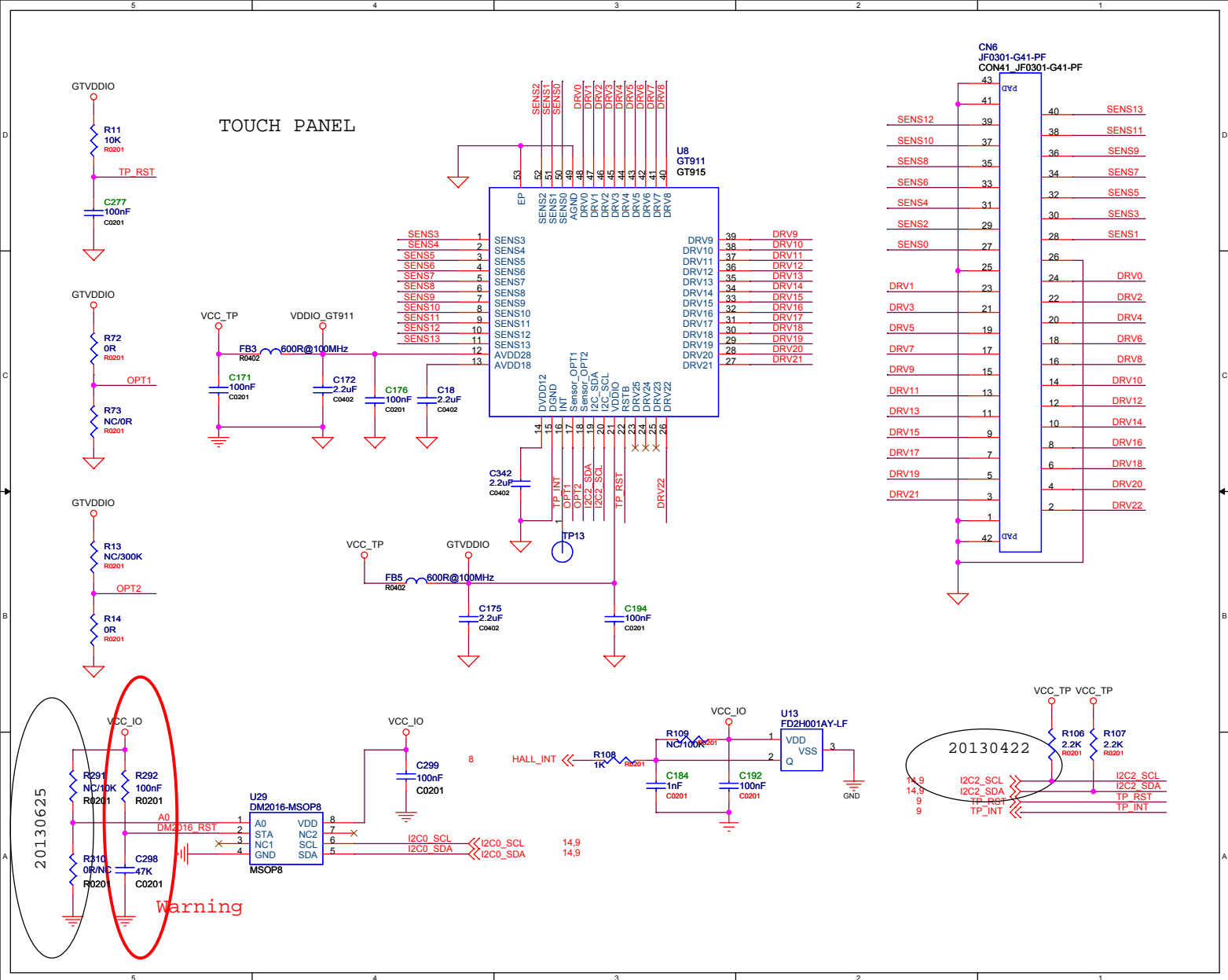


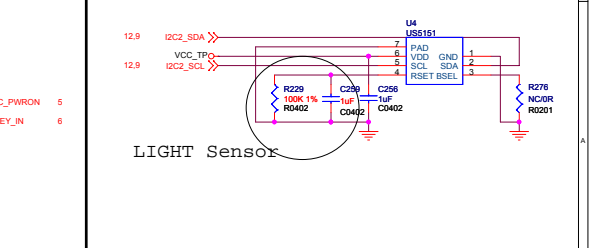
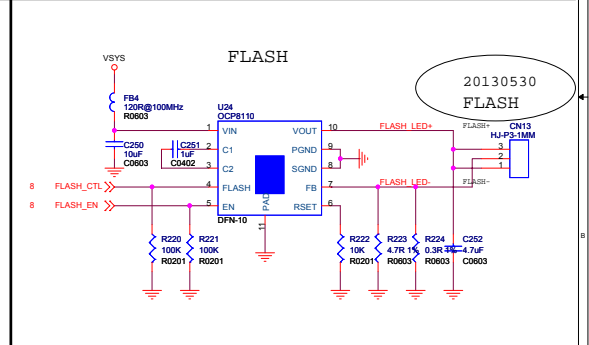
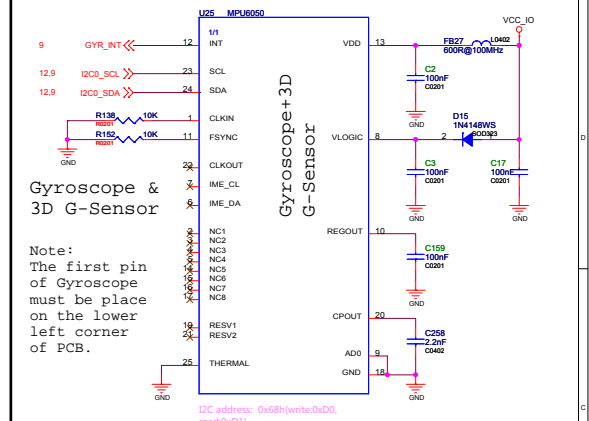
Note:
Place these filter capacitors under CPU.





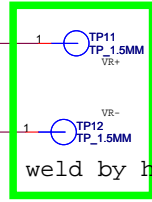
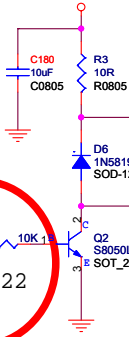




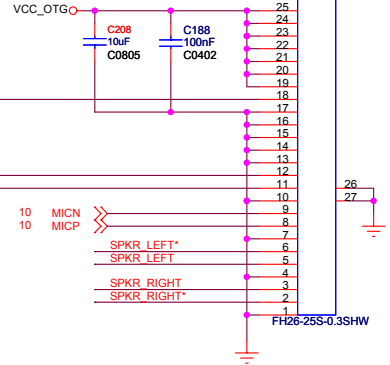
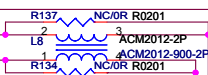


VIBRATION

8 VB_CTL >> B_CTL R86
R0201 10K 1
20130422

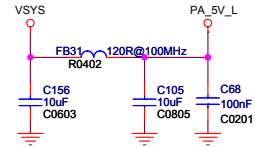
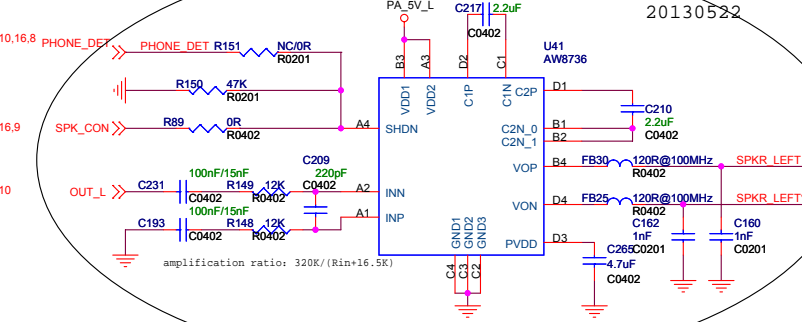


6 OTG_ID >> OTG_ID
6 OTG_USB_DP >> OTG_USB_DP
6 OTG_USB_DM >> OTG_USB_DM



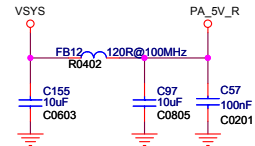
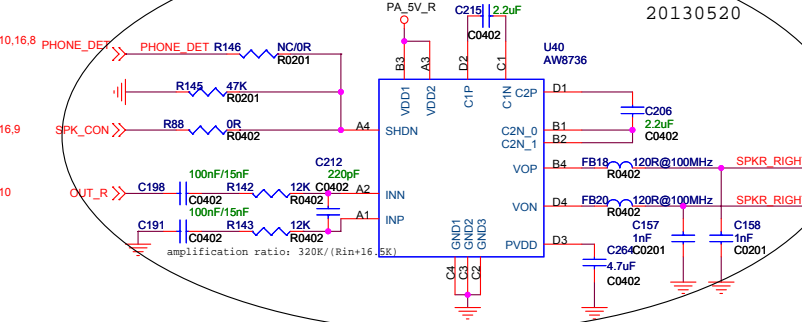
Audio Power Amplifier

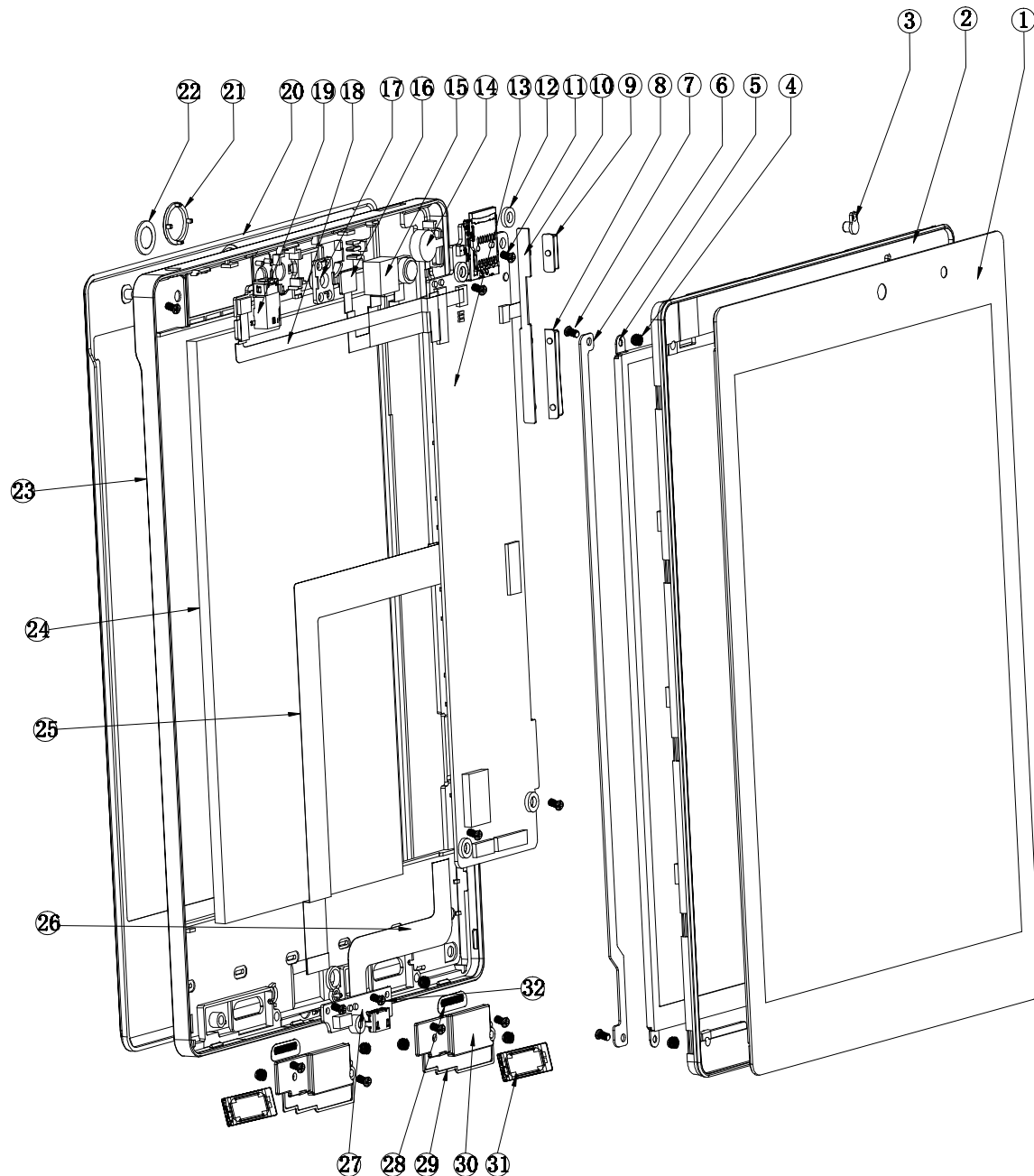
20130522



Audio Power Amplifier

20130520

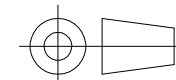




32		镀镍金属牙螺丝	M1.4*3CMHNT (D=3 K=0.5)	2	锁端口版
31		喇叭		2	
30	MBD7806-RE05	喇叭盖	ABS (PA757), 94HB	2	
29	SMBD7806-H03	喇叭poron垫	poron	2	
28	SMBD7806-H02	喇叭网	0.1PET	2	
27		端口板		1	
26		端口线		1	
25		LCD线		1	
24		电池		1	
23	SMBD7806-RE02	中壳(带WIFI)	PC-CH6410, V0	1	表面喷涂
22	SMBC1016-H06	摄像头镜片	0.5mm厚PMMA	1	单面背3M9448胶
21	SMB-C8003-RE04	摄像头装饰件	ABS (PA757), 94HB	1	电镀亮银色
20	SMB-D7806-PT01	后壳铝件(带WIFI)	铝板1050, 1MM厚	1	喷砂氧化
19		耳机PCB		1	
18		耳机线		1	
17	SMB-D7806-RE07	闪光灯罩	PMMA, 94HB, 透明	1	
16		闪光灯PCB		1	
15		摄像头组	前置30万, 后置200万	1	
14		震动马达		1	
13		主板PCB		1	
12	SMB-D7806-H01	规则绝缘垫	PC, 单面青胶	5	锁主板4pcs, 锁耳机板1pcs
11		镀镍金属牙螺丝	M1.4*2CMHNT, (K=0.5 D=3.5耐落)	5	锁主板4pcs, 锁耳机板1pcs
10		按键PCB		1	
9	SMB-D7806-RE03	电源键	ABS (PA757), 94HB	1	表面电镀
8	SMB-D7806-RE04	音量键	ABS (PA757), 94HB	1	表面喷涂
7		镀镍金属牙螺丝	M1.6*2.5CMHNT (K=0.5 D=3 耐落)	8	锁LCD 4pcs, 锁喇叭4pcs
6	SMB-D7806-PT02	LCD支架	0.5mm厚 SUS304	1	
5		LCD	AUO, 7.85寸	1	
4		铜螺母	M1.6*2, 铜, 滚花	8	前壳4pcs, 中壳4pcs
3	SMB-D7806-RE06	光感导光柱	PMMA, 94HB	1	
2	SMB-D7806-RE01	前壳	CF3104 (PC+10GF), V0	1	表面喷涂
1		触摸屏		1	
序号 零件图号		零件名称	材料规格	数量	备注

未注公差按以下公差

尺寸/精度	√				
xx	±0.10	±0.15	±0.50	±1.00	±2.00
xx.X	±0.05	±0.10	±0.20	±0.50	±1.00
xx.XX	±0.02	±0.05	±0.10	±0.20	±0.50
角度/精度					
xx	±1°				
xx.X	±0.5°				
xx.XX	±0.2°				



型 号	SMB-D7806
版本号	V1.0
零件号	
材 料	
比 例	
数 量	个/单机
共 张	第 张

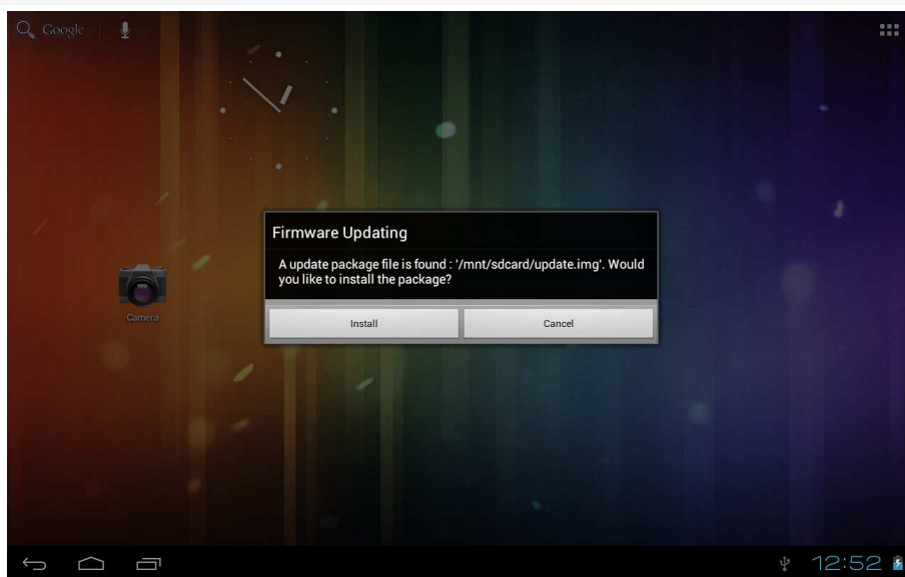
南靖万利达科技有限公司

Firmware update guide (SDcard)

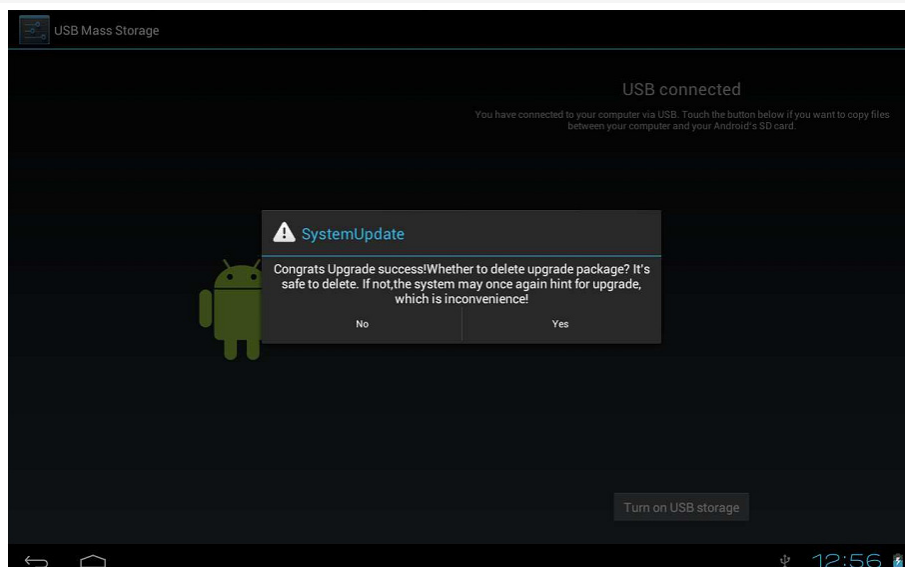
There are two ways to upgrade the firmware. The firmware's name must be named as "update.img". Copy it to the root directory of SD card.

One way:

1. Insert the SD card and power on the device, it'll pop up a dialog window as shown below after the device boots completely.



2. Click "Install", then the device will update the new firmware and reboot automatically.



Another way:

1. Shut down the device, press and hold the "VOL + " key, then press the "Power" key, it'll enter recovery mode



2. Press and hold the " Power " key, then press the "VOL +" key to enter the recovery menu as shown below:

Android system recovery <3e>

*Volume up/down to move highlight
power button to select*

reboot system now

apply update from external storage

wipe data/factory reset

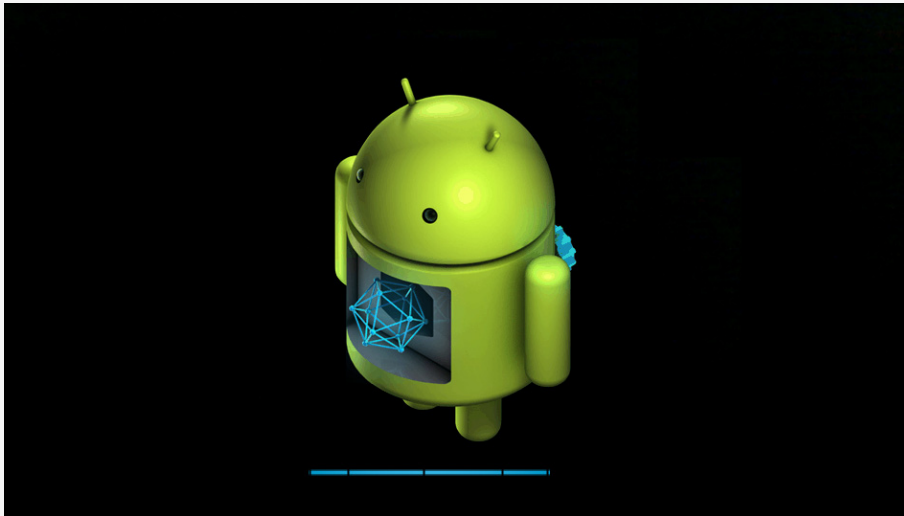
wipe cache partition

apply update from cache

recovery system from backup

update rkimage from /sdcard

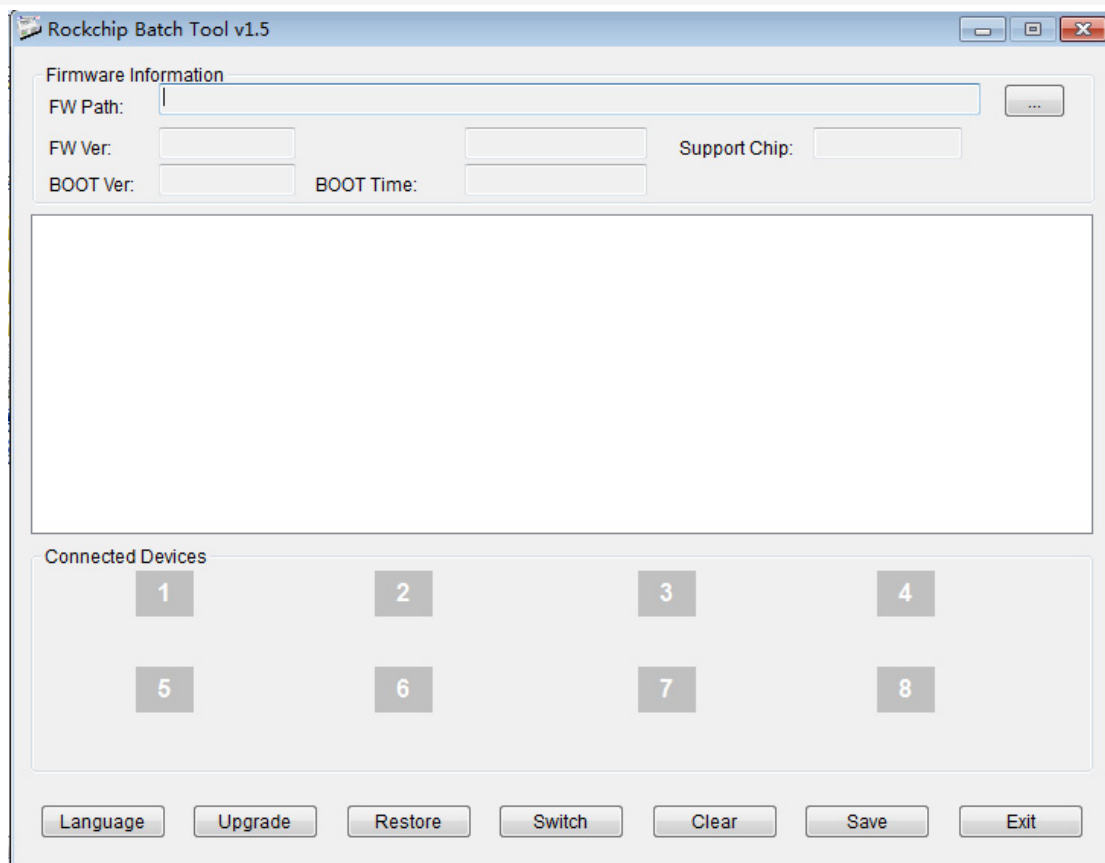
3. Press the “VOL+” or “VOL-” key to select the option “update rkimage from /sdcard”, and then press the “Power” key to confirm the upgrade process.



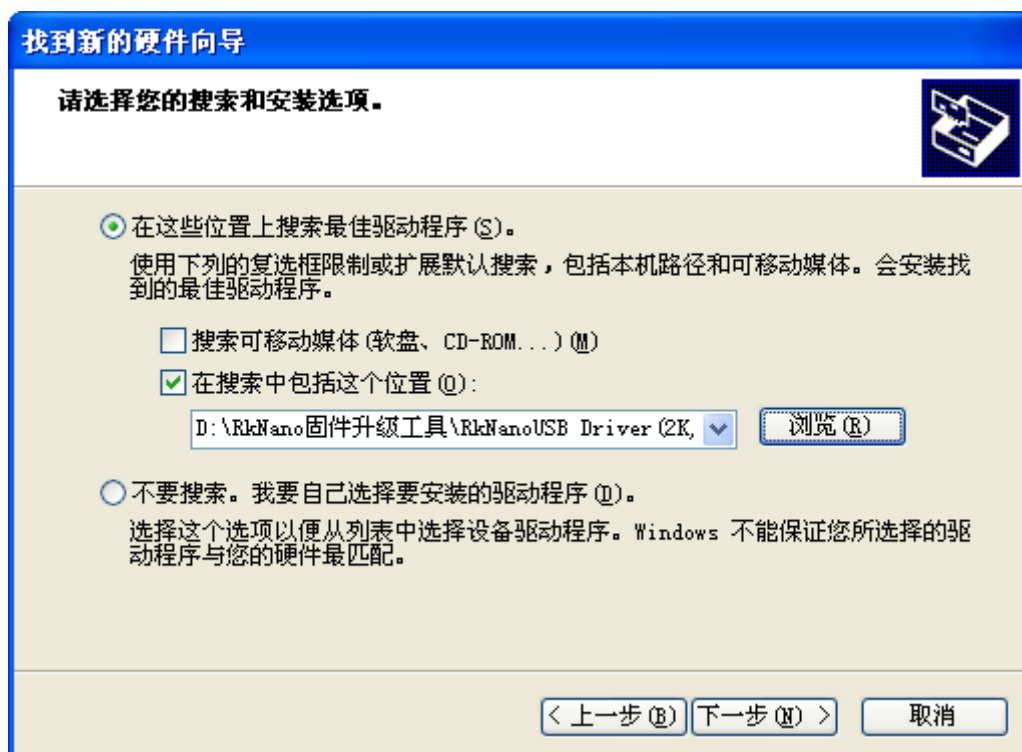
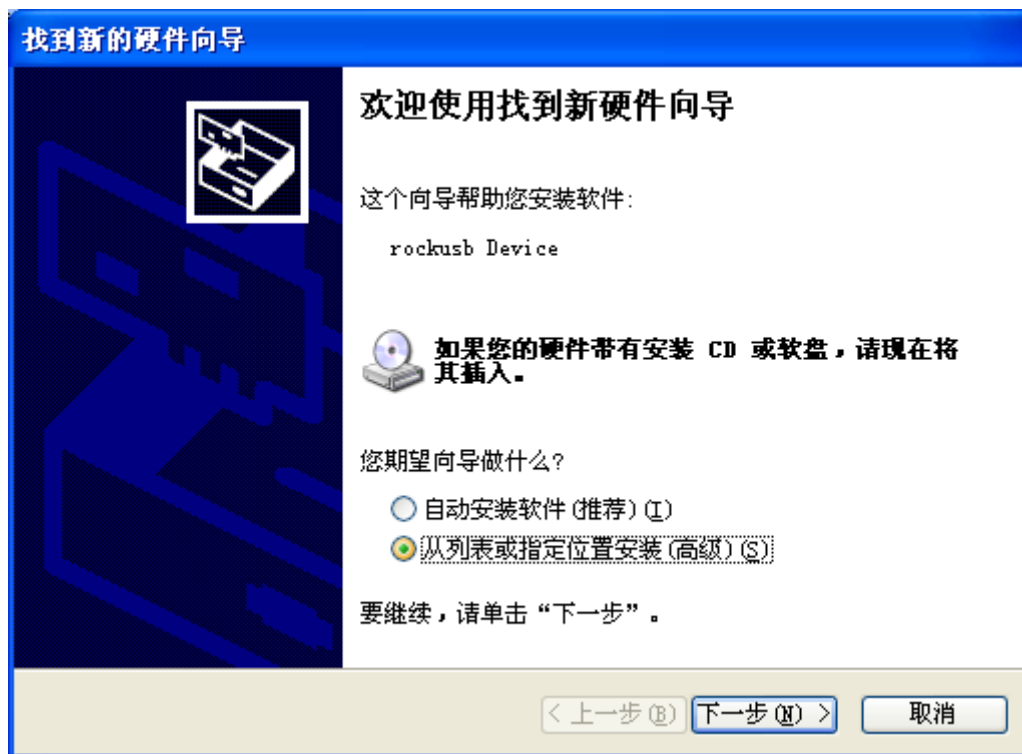
4. When completes, select “reboot system now” to reboot the device.

Firmware update guide (USB burn)

1. open RKBatchTool.exe ;



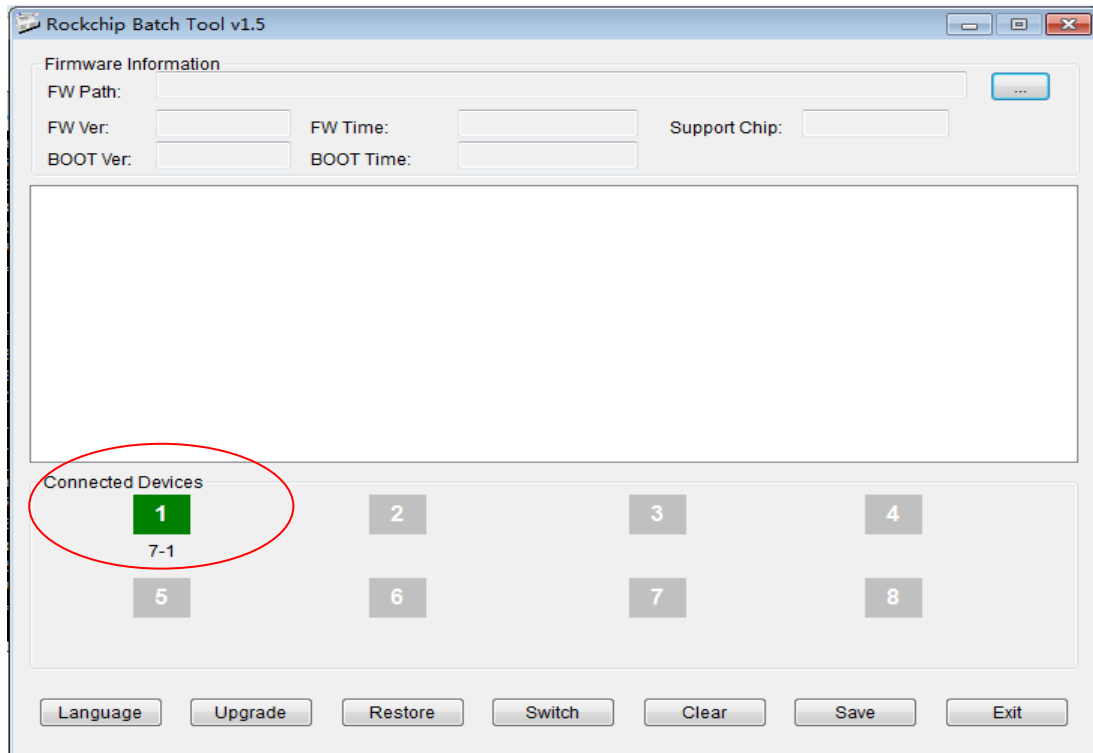
2. Power down the device and connect to the computer. Hold on the VOL+ and the Power key. You must install the driver at first time.



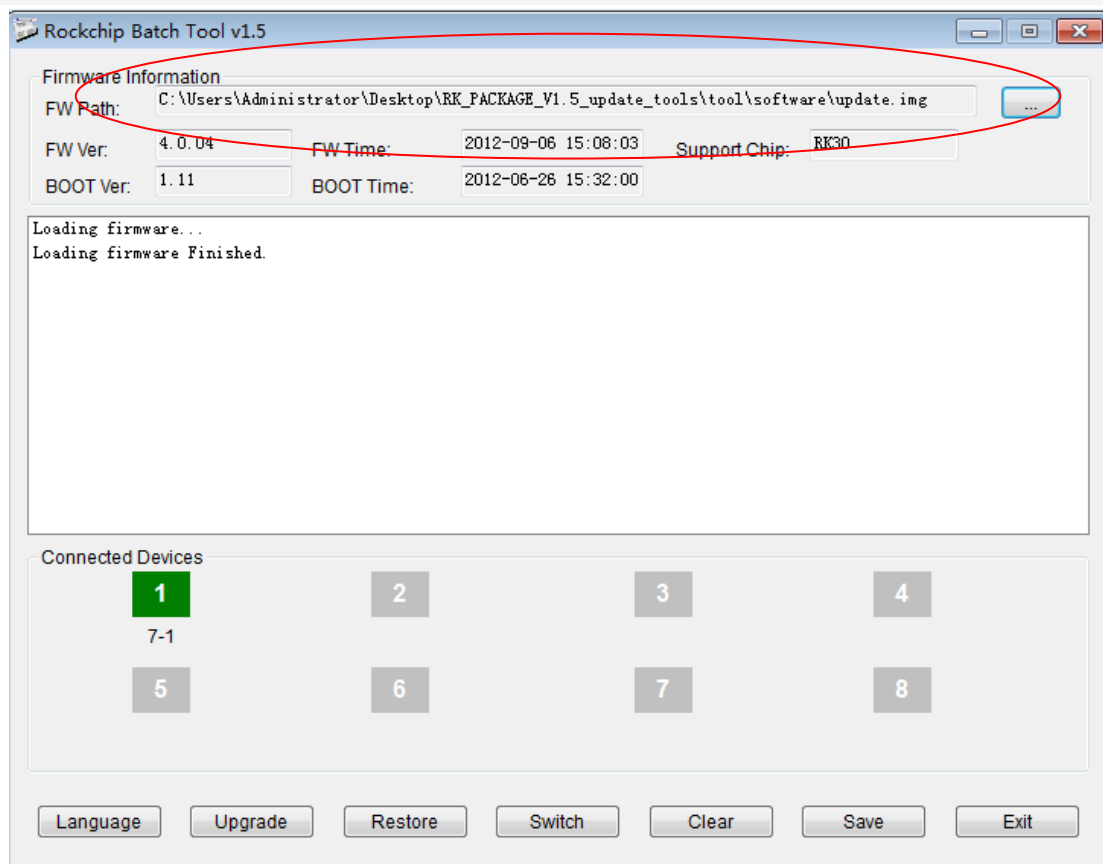
Choose the path for the driver.



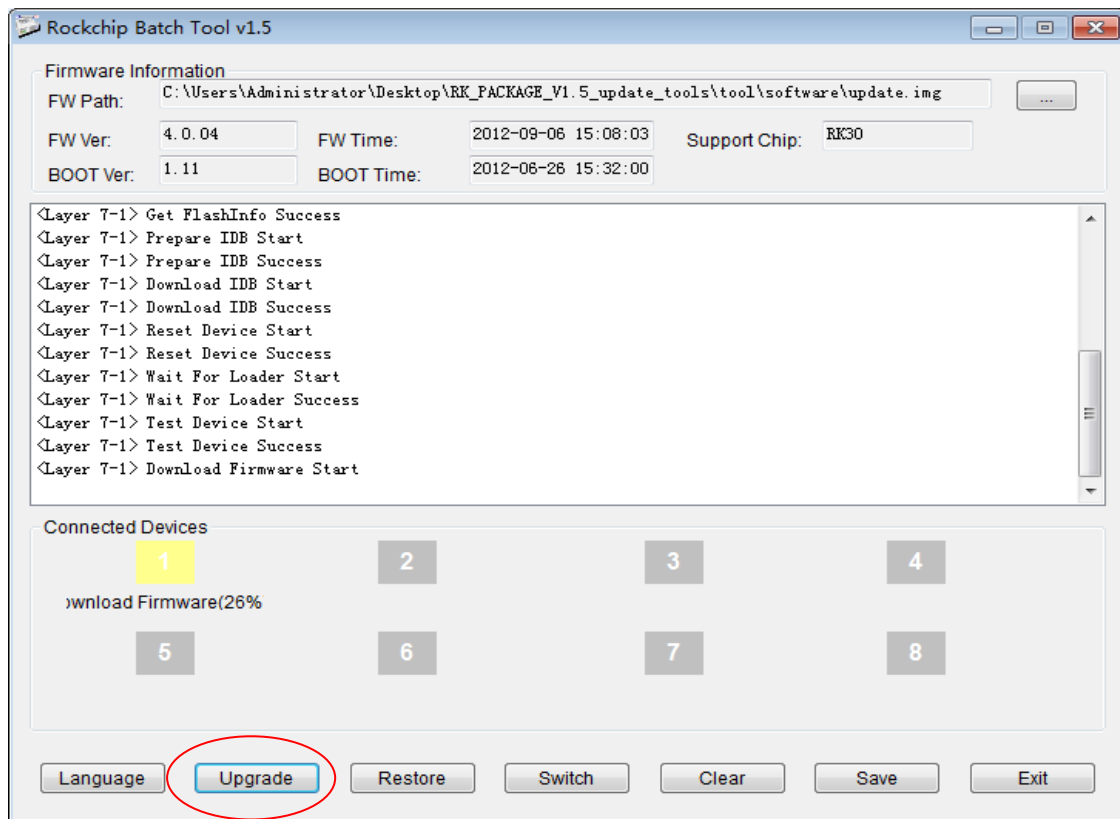
Then the device can found in the batch tool.



3. Select "update.img" in FW PATH. (the FW is named "update.img" in the zip file)



4. Click update.



5. Update successes.

