PMT3177_3G

Technical
Service Manual

System Physical Standard Configuration/系统基本物理参数:		
Type/类型	**Details/详细规格**	**Descriptions/说明**
Product Form/产品样式	Product Form/产品样式	Portrait or Landscape
	Material	ABS+PC
	ID Color	**Black:** black TP+ black middle frame+ black back cover
	Control elements/HW buttons	Power,Vol-,Vol+
	Dimensions(H*W*D)	121MM * 192.8MM * 10.1mm
	Weight	about 350g
LCD/显示屏幕	Type/屏幕材质	IPS
	Screen Size/屏幕尺寸	7"
	Screen Resolution/屏幕分辨率	1024x600
	Aspect ratio/长宽比	16:09
	DPI/每英寸点数	169
	Maximum brightness and contrast	300cdm(typical value),800:1
	Colors/色彩	16.7M
TP/触控面板	Touch Module/触控类型	Capacitive
	Numbers of Touch Points(Multi-Touch)/支持触摸点数	5 dot
	Material	G+G
Battery/电池	Type/类型	Li-ion polymer
	Capacity/容量	4000mAh
	Minimum stand-by time, hour	220
	Minimum talk time 2G, min	3 hours
	Minimum talk time 3G, min	3 hours
	Minimum time video playback HD, min	4 hours
	Minimum time in Audio playback, min	7 hours
	Minimum Internet surfing time	4 hours

System hardware configuration/系统硬件配置:		
Type/类型	**Details/详细规格**	**Descriptions/说明**
Chipset/芯片组	Vendor/供应商	MediaTek
	Chipset/芯片型号	MT8312V/X
CPU	Type/型号	Cortex A7/ Dual core
	Frequency/频率	1.3 GHz
GPU	Manufacture	ARM
	Renderer/渲染率	Mali400 MP2
	Frequency/频率	416MHz
	OpenGL	OPENGL ES2.0
Multi-media (Hardware encoding/decoding)/多媒体（硬件编码/解码）	Phote Viewer/图片浏览格式	JPG, JPEG, BMP,GIF,PNG
	Video Format/视频支持格式	Decoding: VP8,MPEG-4,H.263,H.264 Encoding:H.263
	Audio Format/音频支持格式	Decoding:APE,FLAC,MP3,WAV,MP2,AMR,VDRBIS Encoding:AMR
Memory	Type Built-in Memory and chip	Kingston,Hynix,Nanya DDR3;Kingston,Toshiba,Samsung Emmc
	RAM Capacity/容量	1GB
	ROM Flash/闪存 Capacity/容量	8GB eMMC
	Built-in memory available for user, MB	6550MB
Camera/相机	Front Camera/前置摄像头	0.3MP
	Rear Camera/后置摄像头	N/A
	Rear Flash Light/后置闪光灯	N/A
Speaker/扬声器	Size/规格	1524
	Support polyphonic ring (number of tones)	
Receiver	Built-in	Yes
Navigation	Built-in GPS	Yes
	Built-in GLONASS	N/A
	Support A-GPS	Yes
Sensors	G-Sensor/重力感应器	Yes
	Gyro Sensor/陀螺仪	N/A
	E-Compass/电子罗盘	N/A
	Proximity Sensor/距离感应器	Yes
	Light Sensor/光线感应器	Yes
	Hall Switch Sensor/霍尔感应器	N/A
	Voltmeter/电量计	Yes
FM-Radio	FM Receiver, FM Transmitter	FM Receiver
NFC/近场通讯	Built-in	N/A
	NFC controller chip	N/A
Special Feature/其他特性	GPS EPO assistance	N/A
	Wireless Charging/无线充电	N/A

Network Connections/网络连接:		
Type/类型	**Details/详细规格**	**Descriptions/说明**
2G	Band/网络制式	850/900/1800/1900MHz
	GPRS	Yes
	EDGE	Yes
3G	Band/网络制式	WCDMA(900MHz/2100MHz)
	HSDPA	Yes(900MHz/2100MHz)

4G	Band/网络制式	N/A
	Technology	N/A
Phone features	Phone calls & messaging support	Yes
WI-FI	WI-FI Module/Wi-Fi 模块	WIFI 802.11b/g/n
	Band	2.4GHz
	Cryptographic Algorithms/加密方式	WEP (40-bit、64-bit、128-bit), WPA (TKIP 128-bit), WPA2 (AES 128-bit)
	Max range of wireless connection/无线连接最大范围	30m
	Wi-Fi Direct/Wi-Fi点对点直接连接	Yes
	Wi-Fi Display (Miracast)	N/A
Bluetooth/蓝牙	Version/版本	Bluetooth V4.0
	Cryptographic Algorithms/加密方式	GFSK,DQPSK,DPSK
	Max range of wireless connection/无线连接最大范围	10m
Interface Configuration/接口参数:		
Type/类型	**Details/详细规格**	**Descriptions/说明**
SIM Card Slot/SIM卡槽	SIM Card Slot/SIM卡槽	Standard
	Type of Dual SIM (Dual SIM Stand-by (DSS)/Dual SIM Active (DSA))	N/A
	Switchible Dual-SIM 3G	N/A
	Standard 6-pin SIM card interface, supporting the 1.8/3V USIM card	Yes
	SIM-cards form factor support	Standard
Memory card socket/内存卡插槽	External Memory Type Class/可扩展内存	Support micro-SDHC/SDXC,up tp 32GB
	SD-card Write Rate	SD3.0
	SD-card Read Rate	SD3.0
USB	Data Transfer Port Type/数据接口类型	Micro USB 5pin
	USB Port Data Transfer Rate/数据传输速率	USB2.0
	USB Host OTG support/ USB, Mous/Keyboard	Yes
Charge/充电	Charge Connecter/充电接口	Micro USB 5pin
	Same port with data transfer port	Yes
	Charging time	3hours
Headset Jack/耳机插孔	Headphone Jack Standard	∮ 3.5mm Iphone/NOKIA standard headphone jack
	Support TRRS microphone on the headset headphones	N/A
HDMI interface/HDMI接口	Video, Audio Output/视频输出	N/A
Accessories/附件参数:		
Type/类型	**Quantity/数量**	**Descriptions/说明**
Travel Charger/旅行充电器	1	5V/2A (consigned part)
Power Plugs	1	EU(consigned part)
OTG Cable	1	micro 5 pin(consigned part)
USB Cable	1	(consigned part)

Pouch		(consigned part)
Optional accessories		N/A
Software Configuration/软件参数:		
Type/类型	**Details/详细规格**	**Descriptions/说明**
Operating System/操作系统	OS Version/系统版本	Andriod 4.4

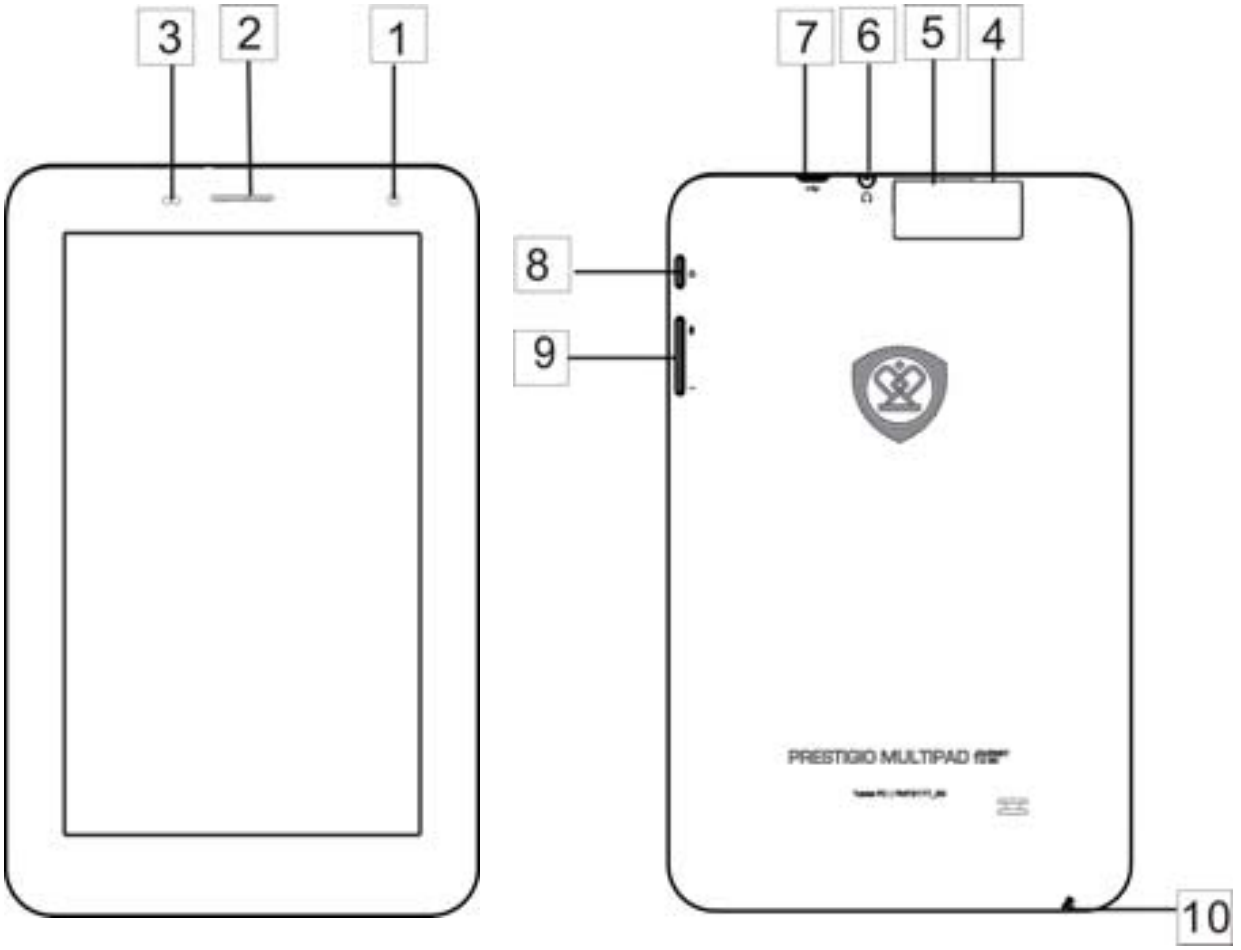
PMT3177_3G Full BOM

ID	Material number	Material number	Specification	Dosage	Remark	Whether alternative materials
1	0414080020039	Attached with a USB data cable	USB-14.4mm ± 0.1-NA-mother - right angle = MICRO USB-5.5mm +0.2 / -0 - logo printed on the reverse side - male - Right Angle [150mm, without a ring, black] / Yu Xin	1		
2	1019000020003	Legal Handbook	Prestigio_MULTIPAD,Legal And Safety Notices,V3.5,Halogen,asbisc	1		
3	1016000020143	Quick Guide	Prestigio,PMT3177_3G_C,QSG,V1.0,Halogen,asbisc	1		
4	1005000020084	Warranty Card	Prestigio,Warranty Card,V3.5,asbisc	1		
5	0101090020005	Other packing bags	140*250mm,CPE,NA,NA,NR	1	Machine bags	
6	0101090020004	Other packing bags	125*200mm,OPP,NA,NA,NR	1	Quick Guide bags	
7	0101050020003	Shrink film bags	255*365mm,V1.0	1	Shrink with color box	
8	0106020020029	Blister plastic box	SMB-E7003, V1.0 (Prestigio customers to use), black shiny plastic, NR	1		
9	0103010220145	Ordinary liner lining	SMB-E7003 Prestigio customers to use, V1.0, single E Watts, NR	1		
10	0104020020344	Gift box	Prestigio,PMT3177_3G_C,V1.0,NR	1		
11	0108020020351	Carton	Prestigio,PMT3177,V1.0,NR	0.1000	Carton 10 units installed	
12	0105070020038	Cardboard sheet	460 * 220mm, single B-watt, two-sided cattle card, NR	0.2000	Pad up and down outside the box	
13	0105070020039	Cardboard sheet	220 * 200mm, single B-watt, two-sided cattle card, NR	0.1000	Mat outer box nailing side	
14	0107020020002	Other trays	1200 * 1000 * 150mm (PP card comes with a board), 3000Kg, black semi-new PP material	0.0017	Customer specified tray manufacturers, air transport is 600 / care, stacking tray after a good overall size: 1200 * 1000 * 1500mm	
15	0109000099961	Paper Corner	960*60*60*5mm	0.0068	Each tray with four pillars, card on the top of the tray, so as not to take the box was bad	
16	0109000099995	Paper Corner	1220*60*60*5mm	0.0068	sides of the tray	
17	1013120020074	Blank stickers	SMBD1013-T02,40*20mm,White PET (single permutation), halogen	1	according to customer	
18	1013120020082	Blank stickers	SMBD7808-T04,50*32mm (India and Eastern Europe Prestigio trademark), white PET, halogen	1	Paste color box	
19	1013120020077	Blank stickers	SMBD7808-T03,80*140mm(India and Eastern Europe Prestigio trademark), white PET, halogen	0.2000	Post Carton 2 (10 units installed)	
20	1013120020038	Blank stickers	BS046A,68*110mm,Coated stickers	0.0140	Each tray 4 (300 pack)	
21	1013010320018	Copperplate paper stickers	Lithium goods labels,120*110mm,Coated stickers	0.0140	Each tray 4 (300 pack)	
22	0422010020076	Outsourcing-AC adapter	HKA01105021-XE,European standard, interchangeable feet,Prestigio,USB,NR,NR,Black / Huntkey	1		
23	0991540020013	Wire functional components	SMB-E7003, USB attached with cable (USB-12mm +0.5 / -0 - logo printed on the reverse side - male - Right Angle) Black	1		
24	0414130020019	Attached with a USB power cable	USB-12mm +0.5 / -0 - logo printed on the reverse side - male - Right Angle = MICRO USB-5.5mm +0.2 / -0 - logo printed on the reverse side - the public - at right angles, [1.0m, without a ring, black] / Xinyu glad	1		
25	SMBE700310004	[Host] - Tablet PC	SMB-E7003 with the handset without without CTIA (APPLE) standard only with gravity sensing dual-core MT8312V / X CPU 8G INAND 1G DDR3L 8797C, V2.0, 2014.03.18, halogen SAM070DP28	1		
26	1013010220125	Plain paper stickers	SMB-D7018, T02, Eastern Europe Prestigio, PMP5670C, water damage sticker 7 * 5mm, NR, V1.0	1	Sticker board suitable location	
27	1004000020016	Warranty seal	Eastern Europe Prestigio, NR (straight through 4mm), V1.0, halogen	1	Sticker board suitable location	
28	0301020120097	Alien PET protective film	SMBE7003-BF01, screen protective film 0.05PET (multi-color printing, with 3G, Eastern Europe Prestigio PMT3177_3G_C), NR	1	Sticker Machine	
29	0602010020157	Irregular Poron	SMBE7003-H02, horn sealed foam, WS-07, single-sided back tesa4972 plastic, black, NR	1	Seal affixed to the shell horn	
30	0610020220005	Black Oxide Machine Screw	M1.4 * 3.5CMHO (drop-resistant), D = 2.4, K = 0.5	3	Lock motherboard	
31	0723000020634	Subassemblies	SMB-E7003, the housing assembly (with no rear camera), silk, black (HW201402001-V1.0), NR	1		
32	0616201020327	Back cover plastic parts	SMBE7003-RE03, after the shell (with no rear camera), spray the surface with a pinhole pattern rubber paint & silk, black (HW201402001-V1.0), NR	1		
33	0616010020225	Key pieces of plastic	SMBE7003-RE04, triple power + volume keys, NR, black, NR	1		
34	0601000020037	P+R	SMBE7003-re05, TF + SIM card cover, spray the surface with a pinhole pattern rubber paint, black, NR	1		
35	0614010120008	Die-cast metal trademark licensing	SMBD7018-H04, Eastern Europe, metal trademarks, W24.4 * L25mm (black housing), silver	1		
36	0602010020156	Irregular Poron	SMBE7003-H03, front camera foam, WS-07, single-sided back tesa4972 plastic, black, NR	1	camera	
37	0602020020063	Regular Poron	8.5*4.2*0.6mm,SR-S-40P,Single back ordinary plastic, black	1	connector with preload	
38	0311020020052	Shaped insulating pad	SMBE7003-H04,Insulation pads, back-sided ordinary plastic, black, NR	1	Posted motherboard	
39	0606020020098	Irregular silica	SMBE7003-H07,MIC Silicone Case, hardness 45, NR, black, NR	1		
40	0991260020068	components	SMB-E7003,With a sense of light / proximity sensor function (combo) configuration	1		
41	0606020020065	Irregular silica	SMBD7021-H06,Silicone Case, hardness of 60 degrees, one side with ordinary plastic, gray	1	proximity sensor is not exposed	
42	0991160020236	camera	SMB-E7003, with pre 300,000 camera configuration (U-SMB-D7021-329, V1.0)	1		
43	0715000020133	Built-in camera	U-SMB-D7021-329, V1.0, CMOS, 30 million pixels, 640 * 480, YUV / Sheng Xinyu	1		
44	0991010320225	components	SMB-E7003, with WCDMA (900MHz/2100MHz) configuration	1		
45	0224010020243	Built-in passive antenna	GX005S.300060.S01, FPC, 800 ~ 2170MHz, leads I-pex D0.81 * L13S, Halogen / Dongguan, China Xu	1	3G antenna	
46	0991150020189	functional components	SMB-E7003,Import EMI countermeasure configuration	1		
47	0304010020068	Rules conductive foam	Fu	4		
48	0303010099964	Rules conductive fabric	Plain, two-sided conductive, single-sided adhesive, adhesive conductive, 15 * 10mm, NA	1	FPC camera affixed to the shield and WIFI	
49	0303010000017	Rules conductive fabric	Plain, two-sided conductive, single-sided adhesive, adhesive conductive, 10 * 7mm, NR	1	Affixed to the SD card with the main shield	
50	0705020020069	Bare battery pack	BT-D005S,4169107(Li-Polymer - Peoples - Li Wei),4000mAh,3.7V	1		
51	0991010320227	Motor functional components	SMB-E7003,With vibration motor configuration	1		
52	0221020020014	DC motors	LCM-0827A1925F(31mm with connection terminals) / Synaptic Microelectronics	1		
53	0991010320226	components	SMB-E7003,Functional configuration with the handset	1		
54	0227000020085	Speaker	SE1506TR2432-995N,20mW,32R,L15*W6*H2.4,Halogen, shrapnel-type / letter RONGDA	1		yes
55	0227000020102	Speaker	MA1506TD-32SBJ,20mW,32R,L15*W6*H2.4,Halogen, shrapnel / Xin AAC	1		Alternative materials
56	SMBE700320004	[Semi-finished products] - Touch Screen & LCD Screen	SMB-E7003, touch screen & LCD screen assembly ACE-GG7.0A-401-P, V1.0 SAM070DP28V1 / Pool Fez assembly HW201402001, PMT3177_3G_C structure (black)	1		
57	0703010020229	Screen touchpad	ACE-GG7.0A-401-P,V1.0,Capacitive, 7 & 16:9, without the domain gum, Halogen / days	1		
58	7008010120126	Screen	SAM070DP28V1/POWERHOENIX assembly	1		
59	0725000020061	LCD screen assembly	MWL070.024.1329-000,Backlight, halogen/POWERHOENIX	0	Single dosage：1	
60	0719000020018	LCD glass	LSL070NL01,Samsung 7 "& 16:9 digital, halogen / engine-Ya Technology	1		
61	0615010020154	adhesive	SMBE7003-H01,Saint-Gobain V2020 sided adhesive, TP double-sided adhesive, NR	1	Front cover fit for TP	
62	0723000020612	Subassemblies	SMB-E7003,Front shell component, black, NR	1		
63	0616201120184	Front cover plastic parts	SMBE7003-RE01,Front shell,NR, black	1		
64	0608030000008	Copper nut	M1.4 * 2, Cu, knurling	6		
65	0607000020021	Speaker Network	SMBD7021-PT02, receiver filter, 0.1 nickel plate, back tesa4972 glue, oxidation, Black	1		
66	0610020220005	Black Oxide Machine Screw	M1.4*3.5CMHO(Drop-resistant),D=2.4,K=0.5	3		
67	0723000020628	Subassemblies	SMB-E7003,mid case assembly,black,NR	1		
68	0616201520044	Mid case plastic parts	SMBE7003-RE02,mid case,NR,black,NR	1	assembly	
69	0617240020042	Bracket Hardware	SMBD7021-PT01,Battery cage, 0.2 thick stainless steel	1		
70	0602010020173	Irregular Poron	SMBE7003-H05, TP dust foam, WS07, back TESA68542-sided adhesive, black, NR	1		
71	0228000020026	Electret receiver	KRB4015RCL87JD-623-R,D4.6*H2.3,With SUR0.8-2P-87mm red and black, halogen / Linda Lake	1		
72	0226020120149	Irregular flexible circuit board	8803C,V1.0,2014.02.14,Halogen	1	LCD cable	
73	SMBE700330005	[Semi-finished products] - Motherboard	DDR3L 8G INAND dual-core MT8312V / X CPU band WCDMA (900MHz/2100MHz) 3G handset with only gravity sensing zone	1		
74	0991410020207	Board functional components	SMB-E7003 motherboard 8797C, DIP shared material	1		
75	0991150020188	functional components	SMB-E7003 motherboard 8797C, import EMI countermeasure DIP	1		
76	0617160020108	Shield Hardware	SMBD7021-PT06, power shield, tin plate 0.2	1		
77	0617160020111	Shield Hardware	SMBD7021-PT03, motherboard shield, tin plate 0.2	1		
78	0311020020048	Shaped insulating pad	SMBD7021-H13, motherboard insulation sheet, general-sided adhesive, black, NR	1	Affixed to the main shield	
79	0311020020059	Shaped insulating pad	SMBE7003-H06, motherboard insulation pad, single back ordinary plastic, black, NR	1	Power shield affixed to the inside	
80	SMBE700340005	[Semi-finished products] - Motherboard	SMB-E7003 motherboard 8797C, SMT8797C, V2.0, 2014.03.18, halogen 1G DDR3L 8G INAND dual-core MT8312V / X CPU band WCDMA (900MHz/2100MHz) 3G handset with only gravity sensing zone with only the front 3	1		
81	0991410020222	Board functional components	SMB-E7003 motherboard 8797C, V2.0 SMT shared material	1		
82	0210050200202	Chip ordinary resistors	0201,0R,1/20W,J,SMD/RC0201JR-070RL/YAGEO/RC-01W000JT/Fenghua Hi-Tech	20		
83	0210050200206	Chip ordinary resistors	0201,27R,1/20W,J,SMD/RC0201JR-0727RL/YAGEO/RC-01W27RFT/Fenghua Hi-Tech	1		
84	0210050200207	Chip ordinary resistors	0201,33R,1/20W,J,SMD/RC0201JR-0733RL/YAGEO/RC-01W33RJT/Fenghua Hi-Tech	1		
85	0210050220129	Chip ordinary resistors	0756RRL/YAGEO/CR0201F56R0T/ 爱嘉尼	1		
86	0210050200211	Chip ordinary resistors	0201,100R,1/20W,J,SMD	3		
87	0210050200212	Chip ordinary resistors	0201,240R,1/20W,F,SMD/RC0201FR-07240RL/YAGEO/RC-01W241FT/Fenghua Hi-Tech	2		
88	0210050220062	Chip ordinary resistors	0201,470R,1/20W,J,SMD/RC0201JR-07470RL/YAGEO/RC-01W471JT/Fenghua Hi-Tech/CR0201J0471T/Huaxin	2		
89	0210050200248	Chip ordinary resistors	0201,1K,1/20W,J,SMD/RC0201JR-0701KL/YAGEO	6		
90	0210050200214	Chip ordinary resistors	0201,1K,1/20W,F,SMD	2		
91	0210050220065	Chip ordinary resistors	0201,1.5K,1/20W,F,SMD/RC0201FR-071K5L/YAGEO	4		
92	0210050200252	Chip ordinary resistors	0201,2.49K,1/20W,F,SMD	1		
93	0210050200308	Chip ordinary resistors	0201,3.3K,1/20W,J,SMD/RC0201JR-073K3L/YAGEO/RC-01W332JT/Fenghua Hi-Tech	1		
94	0210050200219	Chip ordinary resistors	0201,4.7K,1/20W,J,SMD/RC0201JR-074K7L/YAGEO/RC-01W472JT/Fenghua Hi-Tech	6		
95	0210050200341	Chip ordinary resistors	0201,5.1K,1/20W,F,SMD/RC0201FR-075K1L/YAGEO/RC-01W512FT/Fenghua Hi-Tech	1		
96	0210050220064	Chip ordinary resistors	0201,8.06K,1/20W,F,SMD/RC0201FR-078K06L/YAGEO	2		
97	0210050200193	Chip ordinary resistors	0201,10K,1/20W,J,SMD/RC0201JR-0710KL/YAGEO	8		
98	0210050200224	Chip ordinary resistors	0201,47K,1/20W,J,SMD/RC0201JR-0747KL/YAGEO/RC-01W473JT/Fenghua Hi-Tech	1		

99	0210050200228	Chip ordinary resistors	0201,470K,1/20W,J,SMD/RC0201JR-07470KL/YAGEO/RC-01W474JT/Fenghua Hi-Tech	1		
100	0210050299999	Chip ordinary resistors	0402,0R,1/16W,J,SMD/RC0402JR-070RL/YAGEO/CR0402J0000T/Thick sound/RC-02000JT/Fenghua Hi-Tech	3		
101	0210050299891	Chip ordinary resistors	0402,2.2R,1/16W,J,SMD	1		
102	0210050200143	Chip ordinary resistors	0402,267R,1/16W,F,SMD	1		
103	0210050299993	Chip ordinary resistors	0402,1K,1/16W,J,SMD	2		
104	0210050299946	Chip ordinary resistors	0402,16.9K,1/16W,F,SMD	1		
105	0210050299931	Chip ordinary resistors	0402,20K,1/16W,F,SMD	1		
106	0210050299930	Chip ordinary resistors	0402,20K,1/16W,J,SMD	2		
107	0210050299898	Chip ordinary resistors	0402,27K,1/16W,F,SMD	1		
108	0210050299826	Chip ordinary resistors	0402,51K,1/16W,F,SMD	1		
109	0210050299810	Chip ordinary resistors	0402,60.4K,1/16W,F,SMD	1		
110	0210050299813	Chip ordinary resistors	0402,56K,1/16W,F,SMD	2		
111	0210050299918	Chip ordinary resistors	0402,220K,1/16W,F,SMD	1		
112	0210050200318	Chip ordinary resistors	0402,330K,1/16W,F,SMD	1		
113	0210050299841	Chip ordinary resistors	0402,470K,1/16W,J,SMD	1		
114	0210050200005	Chip ordinary resistors	0603,0R,1/10W,F,SMD	3		
115	0210050220145	Chip ordinary resistors	0805,4.7R,1/8W,F,SMD,non-Halogen/RC0805FR-074R7L/YAGEO/RS-05L4R7FT/Fenghua Hi-Tech/CR0805F04R71/Thick sound	1		
116	0208080200119	SMD ceramic capacitors	0201,15pF,25V,COG,0.3mm,J,SMD	1		
117	0208080200107	SMD ceramic capacitors	0201,18pF,25V,COG,0.3mm,J,SMD	4		
118	0208080200085	SMD ceramic capacitors	0201,33pF,25V,COG,0.3mm,J,SMD	6		
119	0208080200101	SMD ceramic capacitors	0201,100PF,25V,COG,0.3mm,J,SMD	5		
120	0208080220030	SMD ceramic capacitors	0201,150pF,25V,0.3mm,K,SMD	1		
121	0208080220048	SMD ceramic capacitors	0201,220pF,25V,X7R,0.3mm,K,SMD/CC0201KRX7R8BB221/YAGEO	1		
122	0208080200104	SMD ceramic capacitors	0201,680PF,25V,X7R,0.3mm,K,SMD	1		
123	0208080200087	SMD ceramic capacitors	0201,102,25V,X5R,0.3mm,K,SMD	2		
124	0208080200088	SMD ceramic capacitors	0201,472,10V,X7R,0.3mm,K,SMD	1		
125	0208080200091	SMD ceramic capacitors	0201,223,6.3V,X5R,0.3mm,K,SMD/CC0201KRX5R5BB223/YAGEO/C0603X5R0J223KT00NN/TDK	2		
126	0208080200062	SMD ceramic capacitors	0201,104,6.3V,X5R,0.3mm(Max.),K,SMD	76		
127	0208080299969	SMD ceramic capacitors	0402,100pF,50V,NPO,NA,J,SMD	2		
128	0208080299967	SMD ceramic capacitors	0402,102,50V,X7R,0.5mm,K,SMD	1		
129	0208080299937	SMD ceramic capacitors	0402,222,50V,X7R,0.5mm,K,SMD/CC0402KRX7R9BB222/YAGEO	1		
130	0208080299966	SMD ceramic capacitors	0402,103,25V,X7R,0.5mm,K,SMD	1		
131	0208080299909	SMD ceramic capacitors	0402,473,10V,X7R,NA,K,SMD	1		
132	0208080200108	SMD ceramic capacitors	0402,104,25V,X5R,0.55mm,K,SMD	12		
133	0208080299960	SMD ceramic capacitors	0402,1uF,10V,X5R,0.5mm,K,SMD/CC0402KRX5R6BB105/YAGEO	28		
134	0208080299932	SMD ceramic capacitors	0402,2.2uF,6.3V,X5R,0.5mm,M,SMD/CC0402MRX5R5BB225/YAGEO	20		
135	0208080200039	SMD ceramic capacitors	0402,4.7uF,6.3V,X5R,0.65mm,C,SMD	10		
136	0208080299880	SMD ceramic capacitors	0603,104,50V,X7R,NA,K,SMD	5		
137	0208080200148	SMD ceramic capacitors	0603,105,25V,X5R,0.8mm,K,SMD	2		
138	0208080220032	SMD ceramic capacitors	0603,225,16V,X5R,0.9mm(Max.),K,SMD	3		
139	0208080299812	SMD ceramic capacitors	0603,4.7uF,16V,X7R,NA,K,SMD	5		
140	0208080299874	SMD ceramic capacitors	0603,10uF,6.3V,X5R,NA,M,SMD	15		
141	0208080200106	SMD ceramic capacitors	0603,22uF,6.3V,X5R,0.8mm,M,SMD/CC0603MRX5R5BB226/YAGEO	2		
142	0208080220104	SMD ceramic capacitors	0805,4.7uF,50V,X5R,1.25±0.20mm,M,SMD/UMK212BBJ475MG-T/TAIYO	1		
143	0208080200011	SMD ceramic capacitors	0805,22uF,6.3V,X5R,NR,M,SMD/CC0805MRX5R5BB226/YAGEO/0805X226M6R3NT/Fenghua Hi-Tech	3		
144	0208080200029	SMD ceramic capacitors	0603,1uF,25V,X7R,0.8mm,K,SMD	1		
145	0207040220002	mode inductance	DLP0NSN900HL2L,90R@100MHz,SMD	5		
146	0207040299999	mode inductance	ACM2012-900-2P,90@10M,SMD(non-Halogen)	1		
147	0207080000011	Stacked Chip Inductor	0402,82nH,-5%~+5%,200mA,8@100MHz,SMD	2		
148	0207030020035	H inductance	VLS252010MNT-R68N,L2.5*W2*H1.0,0.68uH,-30%~+30%,3.0A,SMD/TDK	1		yes
149	0207030020048	H inductance	SPH252010HR68MTY02,L2.5*W2.0*H1.0,0.68uH,-20%~+20%,0.066R,3.2A,SMD/Sunlord	1		Alternative materials
150	0207030020014	H inductance	HPC4018B-100M,L4*W4*H1.8,10uH,-20%~+20%,1.2A,SMD/T'ai	1		
151	0207030020026	H inductance	HPC4018B-2R2M,L4*W4*H1.8,2.2uH,-20%~+20%,2.2A,SMD/T'ai	2		
152	0207030020050	H inductance	VLS252010HBT-R68M-LR,L2.5*W2*H1.0,0.68uH,-20%~+20%,3.2A,SMD/TDK	1		yes
153	0207030020054	H inductance	VLS252010HBX-R68M,L2.5*W2*H1.0,0.68uH,-20%~+20%,4.17A,SMD,non-Halogen/TDK	1		Alternative materials
154	0207080020032	Stacked Chip Inductor	0402,39nH,-5%~+5%,200mA,8@100MHz,SMD/CLH1005T-39NJ-S-NP/CHILISIN	1		
155	0207080020003	Stacked Chip Inductor	0201,7.5nH,-5%~+5%,300mA,14@500MHz,SMD	1		
156	0210080000014	Varistor	ESD402V014BT-MP,0402,0.25pF,14V,SMD	16		
157	0210080020005	Varistor	AVLC SS 02 050,0402,50pF,5.5V,SMD/AMECS	4		
158	0211010020007	TVS Diodes	ESD7951ST5G,5.0V,150mW,Two-way,SOD923,SMD/ON	1		
159	0211080000022	Zener diode	PZ3D4V2H,5.1V,-10%~+10%,5mA,SOD323,SMD/Presemi	1		
160	0211090100003	Monomer Schottky diode	1N5819HW,40V,1A,SOD-123,SMD	1		yes
161	0211090120008	Monomer Schottky diode	LMBR140FT1G,40V,1A,SOD-123,SMD/LRC	1		Alternative materials
162	0205040099974	Ordinary beads	0402,120R,500mA,SMD	2		
163	0205040020000	Ordinary beads	0402,600R,300mA,SMD	1		
164	0205040099986	Ordinary beads	0603,50R,3A,SMD	1		
165	0205010020001	PB Beads	BLM15HD102SN1,0402,1000R@100MHz&2000R@1Ghz,250mA,SMD	7		
166	0205010099969	PB Beads	NA,0603,220R,2A,SMD	2		
167	0225000099980	Passive filters	SAFEB1G57KE0F00,Surface Acoustic,1411,SMD/Murata	1		
168	0201360320006	Video Converter IC	MT8193,LVFBGA150,SMD/MTK	1		
169	0201180020009	Reset IC	TPS3421EGDRYR,DFN-6,SMD,non-Halogen/TI	1		yes
170	0201180020006	Reset IC	FT7522L6X,DFN-6,SMD/Fairchild	1		Alternative materials
171	0201120320003	PMU Power IC	MT6323GA/A,VFBGA-145L,SMD/MTK	1		
172	0201170120005	IC	AW8736FCR,FC-16,SMD	1		
173	0201050120003	Capacitive touch control IC	GT910,QFN40,SMD(GOODIX)	1		
174	0201150020004	Modulator & Demodulator IC	MT6627N/A,QFN,SMD/MTK	1		
175	0201170220000	RF amplifier IC	BGU7005,XSOU6,SMD/NXP	1		
176	0201040120000	management IC	BQ24196RGER,QFN24,SMD	1		
177	0201120220024	Built-in DC-DC power MOS IC	SGM3732,SOT-23-6,SMD/SGMICRO	1		
178	0201120220012	Built-in DC-DC power MOS IC	SY8089AAAC,SOT-23-5,SMD	1		
179	0201310220019	regulator IC	TLV70233DBVR,SOT23-5,SMD,non-Halogen/TI	1		
180	0201310220018	regulator IC	TLV70212DBVR,SOT23-5,SMD,non-Halogen/TI	1		
181	0201420020017	Diplexer IC	RFDIP1608060TM7T62,L1.6*W0.8*H0.6,SMD/Huaxin technoloy	1		
182	0218010020010	Passive crystal	7M26000028,26.000MHz,-10PPM~+10PPM,4P,L3.2*W2.5*H0.7,SMD/TXC	1		
183	0218020020001	Active crystal	1XXB26000CTF,26.000MHz,-0.5PPM~+0.5PPM,1.8V,SMD	1		yes
184	0218020000035	Active crystal	7L26002009,26.000MHz,-0.5PPM~+0.5PPM,1.70V~3.30V,SMD/TXC	1		Alternative materials
185	0502110000015	Conventional socket	SUR0.8-2A,Single row, horizontal,SMD	2		
186	0502010200065	Horizontal FPC socket	6P,0.5mm,Non-breaking plate, clamshell, then under, single row,SMD	1		
187	0505030020003	Micro SD card connector	GTF016-C1E,Board type, can pop up with a card detection,SMD	1		
188	0502030020014	Micro USB socket	DX4R005JJE,Non-breaking flat plate, are posted,SMD/JAE	1		
189	0502230820026	Headphone jack audio and video	NJP372-103T,D3.5,3 Channel, with switch, broken plate, horizontal, SMD / Majestic	1		
190	0502010200038	Horizontal FPC socket	39P,0.3mm,Non-breaking plate, front clamshell, then under, double row,SMD/FH26-39S-0.3SHW(05)/HRS	1		
191	0502010220041	Horizontal FPC socket	35P,0.3mm,Non-breaking plate, front clamshell, then under, double row,SMD/FH26-35S-0.3SHW(05)/HRS	1		
192	0502220020007	Coaxial socket	PAN00-01120-0107,Shrapnel, without switch, vertical,SMD/LCN	2		
193	0208080299961	SMD ceramic capacitors	0402,104,50V,Y5V,NA,Z,SMD	2		
194	0211010000032	TVS Diodes	LXES15AAA1-017,15V,NR,Two-way,0402,SMD	3		
195	0218010099944	Passive crystal	FC-135,32.768KHz,-20PPM~+20PPM,2P,L3.2*W1.5*H0.8,SMD	1		
196	0207030020067	H inductance	VLS252010CX-2R2M,L2.5*W2.0*H1.0,2.2uH,-20%~+20%,1.68A,SMD,non-Halogen/TDK	1		
197	0617160020110	Shield Hardware	SMBD7021-PT04,WIFI Shield, tin plate 0.2	1		
198	0226010020565	PCB circuit boards	8797C,V2.0,2014.03.18,Halogen	1		
199	0210050220148	Chip ordinary resistors	0805,5.1R,1/8W,F,SMD,non-Halogen/RC0805FR-075R1L/YAGEO/RS-05L5R1FT/Fenghua Hi-Tech/CR0805F05R1T/Thick sound	1		
200	0210050299853	Chip ordinary resistors	0402,43K,1/16W,F,SMD	1		
201	0991040020184	DDR functional components	SMB-E7003 Motherboard 8797C,1G DDR3L Function Deployment	1		
202	0201071220016	DDR3 SDRAM memory IC	D5128EETBPGGBU,FBGA78,SMD/Kingston	2		
203	0991110020360	Memory function components	SMB-E7003 Motherboard 8797C,8G INAND Function Deployment	1		
204	0201070520011	INAND FLASH memory IC	KE4CN3K6A,BGA169,SMD,non-Halogen/Kingston	1		
205	0991190020126	components	SMB-E7003 Motherboard 8797C,MT8312V/X CPU Dual-core configuration	1		
206	0201260220029	CPU controller IC	MT8312V/X,MT8312V/X,FCCSP475,SMD/MEDIATEK	1		
207	0991010320224	components	SMB-E7003 Motherboard 8797C,with WCDMA(900MHz/2100MHz) configuration	1		
208	0201150020005	Modulator & Demodulator IC	MT6166V/A,TFBGA,SMD/MTK	1		
209	0201170200005	RF amplifier IC	RF7241,RF7241DS,SMD	1		
210	0201170200007	RF amplifier IC	RF7248,RF7248DS,SDM	1		
211	0201170220010	RF amplifier IC	SKY77589,6*6*0.9mm,SMD/SKYWORKS	1		
212	0201420020005	Diplexer IC	SAYRF1G95HQ0F0A,L2.0*W1.6*H0.6,SMD/Murata	1		
213	0201420020009	Diplexer IC	SAYFH897MHC0F0A,L2.0*W1.6*H0.6,SMD/Murata	1		
214	0207080000048	Stacked Chip Inductor	0201,8.2nH,-5%~+5%,180mA,14@500MHz,SMD	1		
215	0207080000053	Stacked Chip Inductor	0201,2.2nH,-0.2nH~+0.2nH,600mA,14@500MHz,SMD	4		
216	0207080000056	Stacked Chip Inductor	0201,18nH,-5%~+5%,160mA,14@500MHz,SMD	1		
217	0207080000057	Stacked Chip Inductor	0201,33nH,-5%~+5%,130mA,10@500MHz,SMD	1		

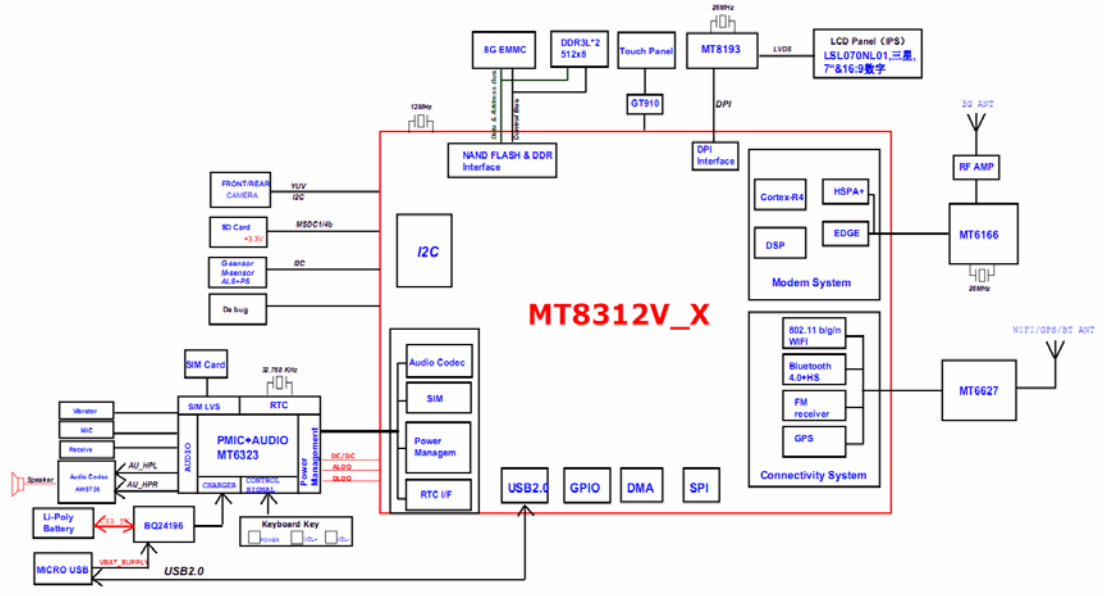
218	0207080000061	Stacked Chip Inductor	0201,10nH,-5%~+5%,250mA,10@500MHz,SMD	2		
219	0207080020006	Stacked Chip Inductor	0201,39nH,-5%~5%,120mA,10@300MHz,SMD/MLG0603P39NJT/TDK	1		
220	0207080020027	Stacked Chip Inductor	0201,4.3nH,-0.3nH~+0.3nH,220mA,13@500MHz,SMD/SDCL0603Q4N3ST02 /Sunlord	1		
221	0207080020043	Stacked Chip Inductor	0201,2nH,-0.3nH~+0.3nH,380mA,4@100MHz,SMD/HK06032NOS-T/TAIYO	2		
222	0207080020051	Stacked Chip Inductor	0201,1nH,-0.2nH~+0.2nH,1000mA,14@500MHz,SMD/MLG0603P1N0CT/TDK	2		
223	0207080020052	Stacked Chip Inductor	0201,15nH,-5%~+5%,250mA,14@500MHz,SMD/MLG0603P15NJTZ10/TDK	1		
224	0207080020053	Stacked Chip Inductor	Halogen/TDK	1		
225	0208080200062	SMD ceramic capacitors	0201,104,6.3V,X5R,0.3mm(Max.),K,SMD	2		
226	0208080200080	SMD ceramic capacitors	0201,6.8pF,50V,COG,0.3mm,C,SMD	1		
227	0208080200083	SMD ceramic capacitors	0201,22pF,25V,COG,0.3mm,J,SMD	4		
228	0208080200085	SMD ceramic capacitors	0201,33pF,25V,COG,0.3mm,J,SMD	1		
229	0208080200086	SMD ceramic capacitors	0201,56pF,25V,COG,0.3mm,J,SMD	2		
230	0208080200094	SMD ceramic capacitors	NE/TDK/JMK063BJ474MP-F/TAIYO YUDEN	6		
231	0208080200100	SMD ceramic capacitors	0201,4.7pF,25V,COG,0.3mm,C,SMD	2		
232	0208080200101	SMD ceramic capacitors	0201,100PF,25V,COG,0.3mm,J,SMD	2		
233	0208080200107	SMD ceramic capacitors	0201,18pF,25V,COG,0.3mm,J,SMD	3		
234	0208080200108	SMD ceramic capacitors	0402,104,25V,X5R,0.55mm,K,SMD	2		
235	0208080200140	SMD ceramic capacitors	0201,10pF,25V,COG,0.3mm,J,SMD	1		
236	0208080220048	SMD ceramic capacitors	0201,220pF,25V,X7R,0.3mm,K,SMD/CC0201KRX7R8BB221/YAGEO	1		
237	0208080220049	SMD ceramic capacitors	0201,39pF,25V,NPO,0.3mm,J,SMD/CC0201JRNPO8BN390/YAGEO	1		
238	0208080220086	SMD ceramic capacitors	0201,2pF,50V,NPO,0.3mm,C,SMD/CC0201CRNPO9BN2R0/YAGEO/CC0201N2R0C250T/Huaxin/0201CG2R0C250NT/Fenghua Hi-Tech	1		
239	0208080299874	SMD ceramic capacitors	0603,10uF,6.3V,X5R,NA,M,SMD	1		
240	0208080299920	SMD ceramic capacitors	0402,39pF,50V,NPO,NA,J,SMD	1		
241	0208080299932	SMD ceramic capacitors	0402,2.2uF,6.3V,X5R,0.5mm,M,SMD/CC0402MRX5R5BB225/YAGEO	1		
242	0208080299951	SMD ceramic capacitors	0402,152,50V,X7R,NA,K,SMD	2		
243	0208080299960	SMD ceramic capacitors	0402,1uF,10V,X5R,0.5mm,K,SMD/CC0402KRX5R6BB105/YAGEO	5		
244	0210050200193	Chip ordinary resistors	0201,10K,1/20W,J,SMD/RC0201JR-0710KL/YAGEO	1		
245	0210050200202	Chip ordinary resistors	0201,0R,1/20W,J,SMD/RC0201JR-070RL/YAGEO/RC-01W000JT/Fenghua Hi-Tech	2		
246	0210050200206	Chip ordinary resistors	0201,27R,1/20W,J,SMD/RC0201JR-0727RL/YAGEO/RC-01W27RFT/Fenghua Hi-Tech	2		
247	0210050200248	Chip ordinary resistors	0201,1K,1/20W,J,SMD/RC0201JR-0701KL/YAGEO	4		
248	0210050200249	Chip ordinary resistors	0201,34.8R,1/20W,F,SMD	1		
249	0210050200312	Chip ordinary resistors	0201,24K,1/20W,J,SMD/RC0201JR-0724KL/YAGEO/RC-01W243JT/Fenghua Hi-Tech	1		
250	0210050220059	Chip ordinary resistors	0201,51R,1/20W,J,SMD/RC0201JR-0751RL/YAGEO	1		
251	0210050220060	Chip ordinary resistors	0201,2K,1/20W,F,SMD/RC0201FR-072KL/YAGEO	1		
252	0210050299999	Chip ordinary resistors	0402,0R,1/16W,J,SMD/RC0402JR-070RL/YAGEO/CR0402J0000T/Thick sound/RC-02000JT/Fenghua Hi-Tech	2		
253	0210080000014	Varistor	ES0402V014BT-MP,0402,0.25pF,14V,SMD	3		
254	0218010020010	Passive crystal	7M26000028,26.000MHz,-10PPM~+10PPM,4P,L3.2*W2.5*H0.7,SMD/TXC	1		yes
255	0218010020016	Passive crystal	10PPM~+10PPM,4P,L3.2*W2.5*H0.65,SMD/Heightening	1		Alternative materials
256	0225000020019	Passive filters	RFBLN2012090BM5T25,MLC,2.0*1.2*0.9,SMD/PSA	1		
257	0502220020000	Coaxial socket	C168-JL-1663,MHF3,Without switch, vertical,SMD	1		
258	0502220099989	Coaxial socket	MM8430-2610RB3,I-PEX,With switch, vertical,SMD	1		
259	0617160020109	Shield Hardware	SMBD7021-PT05,3G shield, tin plate 0.2	1		
260	0505080020019	SIM card	CAF99-06153-S12701,Can not eject, SMD, halogen / LCN	1		
261	0991060020098	Gravity sensor assembly	SMB-E7003 motherboard 8797C,With a gravity sensor configuration	1		
262	0210050200211	Chip ordinary resistors	0201,100R,1/20W,J,SMD	2		
263	0208080200062	SMD ceramic capacitors	0201,104,6.3V,X5R,0.3mm(Max.),K,SMD	2		
264	0201060300015	Acceleration sensor IC	BMA250E,LGA-12,SMD/BOSCH	1		
265	0991560020006	components	SMB-E7003 motherboard 8797C,Functional configuration with the handset	1		
266	0208080200101	SMD ceramic capacitors	0201,100PF,25V,COG,0.3mm,J,SMD	2		
267	0208080200085	SMD ceramic capacitors	0201,33pF,25V,COG,0.3mm,J,SMD	4		
268	0205010020001	PB Beads	BLM15HD102SN1,0402,1000R@100MHz&2000R@1Ghz,250mA,SMD	2		
269	0210080000014	Varistor	ES0402V014BT-MP,0402,0.25pF,14V,SMD	2		
270	0991160020234	camera	SMB-E7003 motherboard 8797C,Pre-configured with 300,000	1		
271	0210050299999	Chip ordinary resistors	0402,0R,1/16W,J,SMD/RC0402JR-070RL/YAGEO/CR0402J0000T/Thick sound/RC-02000JT/Fenghua Hi-Tech	1		
272	0208080200062	SMD ceramic capacitors	0201,104,6.3V,X5R,0.3mm(Max.),K,SMD	3		
273	0208080299932	SMD ceramic capacitors	0402,2.2uF,6.3V,X5R,0.5mm,M,SMD/CC0402MRX5R5BB225/YAGEO	2		
274	0208080299960	SMD ceramic capacitors	0402,1uF,10V,X5R,0.5mm,K,SMD/CC0402KRX5R6BB105/YAGEO	1		
275	0502210020020	Special socket	AXT530124,0.4mm,30P,Double row, vertical, SMD / Panasonic	1		
276	0991670020088	components	SMB-E7003 motherboard 8797C, with CTIA (APPLE) standard headphones	1		
277	0210050200202	SMD ceramic capacitors	0201,0R,1/20W,J,SMD/RC0201JR-070RL/YAGEO/RC-01W000JT/Fenghua Hi-Tech	2		
278	0502110020012	Conventional socket	MH1.25-5A, single row, horizontal, SMD / Xin Technology	1		
279	0210050299764	Chip ordinary resistors	0603,0R,1/10W,J,SMD/RC0603JR-070RL/YAGEO/CR0603J0000T/Thick sound/RS-03000JT/Fenghua Hi-Tech	2		
280	0991260020067	Motor functional components	SMB-E7003 motherboard 8797C, with a vibration motor configuration	1		
281	0208080299960	SMD ceramic capacitors	0402,1uF,10V,X5R,0.5mm,K,SMD/CC0402KRX5R6BB105/YAGEO	1		
282	0211090120003	Monomer Schottky diode	RB521CS-30,30V,100mA,SOD-923,SMD/ROHM	1		
283	0502110000015	Conventional socket	SUR0.8-2A, single row, horizontal, SMD	1		
284	0991250020024	functional components	SMB-E7003 motherboard 8797C, import EMI countermeasure	1		
285	0230010000002	Shield mounts	ICSRC5210SFR,L5.2*W1.0*H1.3,SMD	10		
286	0991410020223	Board functional components	SMB-E7003 motherboard 8797C, V2.0 with a sense of light / proximity sensor (Combo) function configuration	1		
287	0210050200224	Chip ordinary resistors	0201,47K,1/20W,J,SMD/RC0201JR-0747KL/YAGEO/RC-01W473JT/Fenghua Hi-Tech	1		
288	0210050299925	Chip ordinary resistors	0402,22R,1/16W,J,SMD	1		
289	0208080299960	SMD ceramic capacitors	0402,1uF,10V,X5R,0.5mm,K,SMD/CC0402KRX5R6BB105/YAGEO	1		
290	0208080200039	SMD ceramic capacitors	0402,4.7uF,6.3V,X5R,0.65mm,C,SMD	1		
291	7001230120218	adapter plate	8717C,(SMB-E7003)Special	1		
292	0201060220003	Photoelectric Sensor IC	TMD27723,DFN-8,SMD/TAOS	1		
293	0226010020585	PCB circuit boards	8717C,V3.0,2014.03.17	1		
294	0226020120158	Irregular flexible circuit board	8801C,V2.0,2014.03.01,Halogen	1	Key board	
295	0224010020237	Built-in passive antenna	GX005S.300059.S01,FPC,1570MHz~2500MHz,Goldfinger, non-Halogen / Dongguan, China Xu	1	GPS antenna	
296	0227000020101	Speaker	MA2415G-6,1W,8R,L24*W15*H3.8,With line 0.8-2Y-60mm red and black wire, halogen / Xin AAC	1		yes
297	0227000020095	Speaker	KDS2415T-38T60D01-A,1W,8R,L24*W15*H3.8,With line 0.8-2Y-60mm red and black wire, halogen / managing	1		Alternative materials

2 Overview



1:	Front Camera	6:	Headset Jack
2:	Earpiece	7:	Micro USB Port
3:	Light/Proximity Sensor	8:	Power Button
4:	SIM Card Port	9:	VOL +/- Button
5:	Micro SD Card Port	10:	Microphone

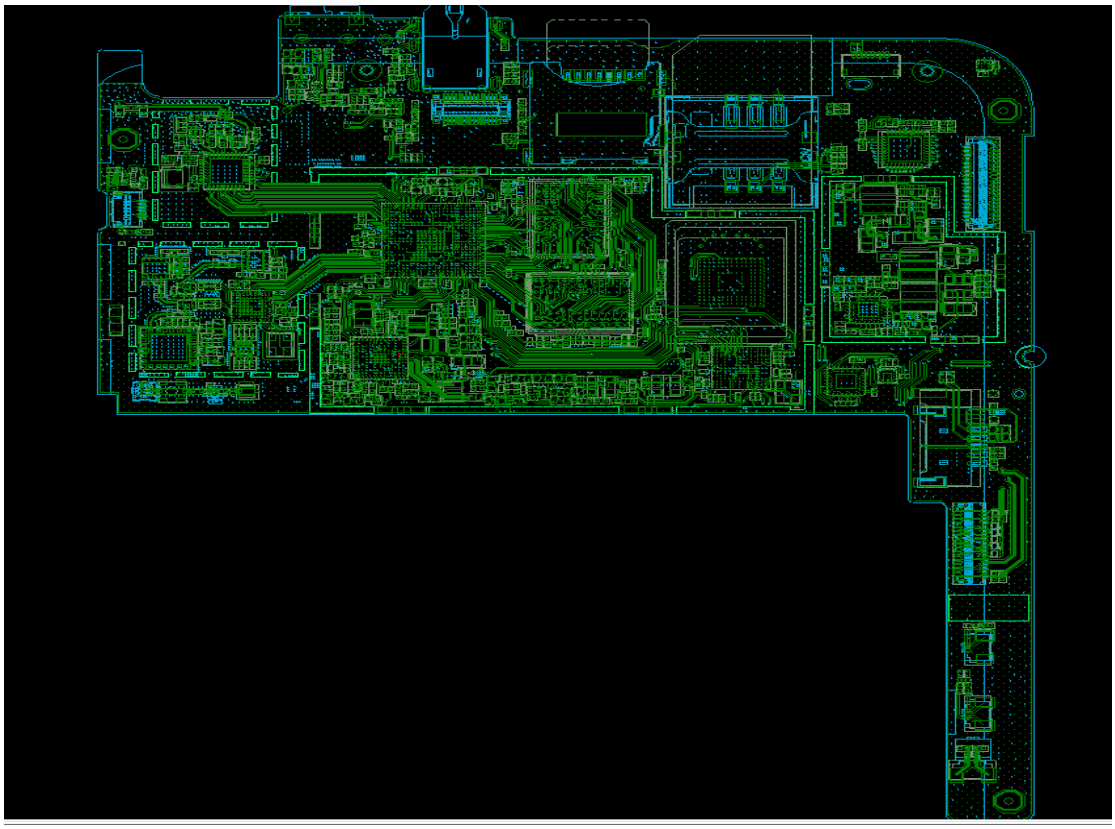
Schematic Diagram



Printed Circuit

Main board 8598C

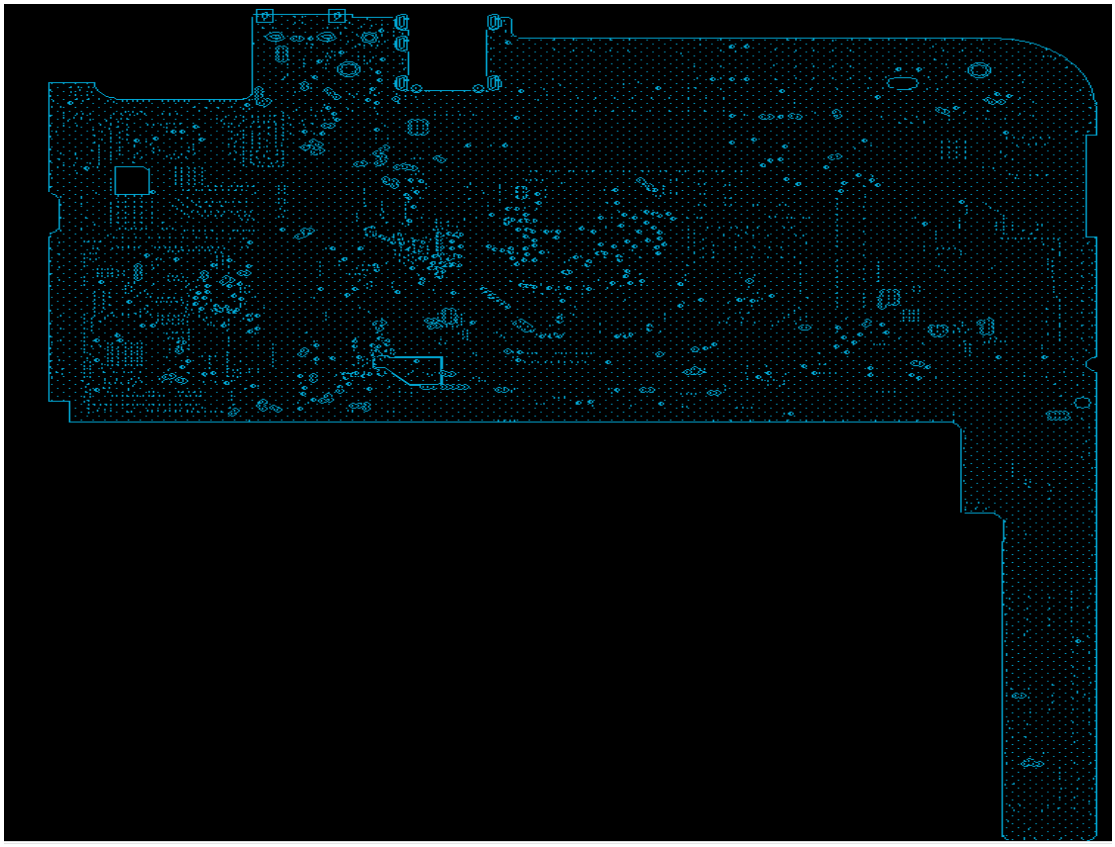
A: TOP LAYER



B:L2 LAYER



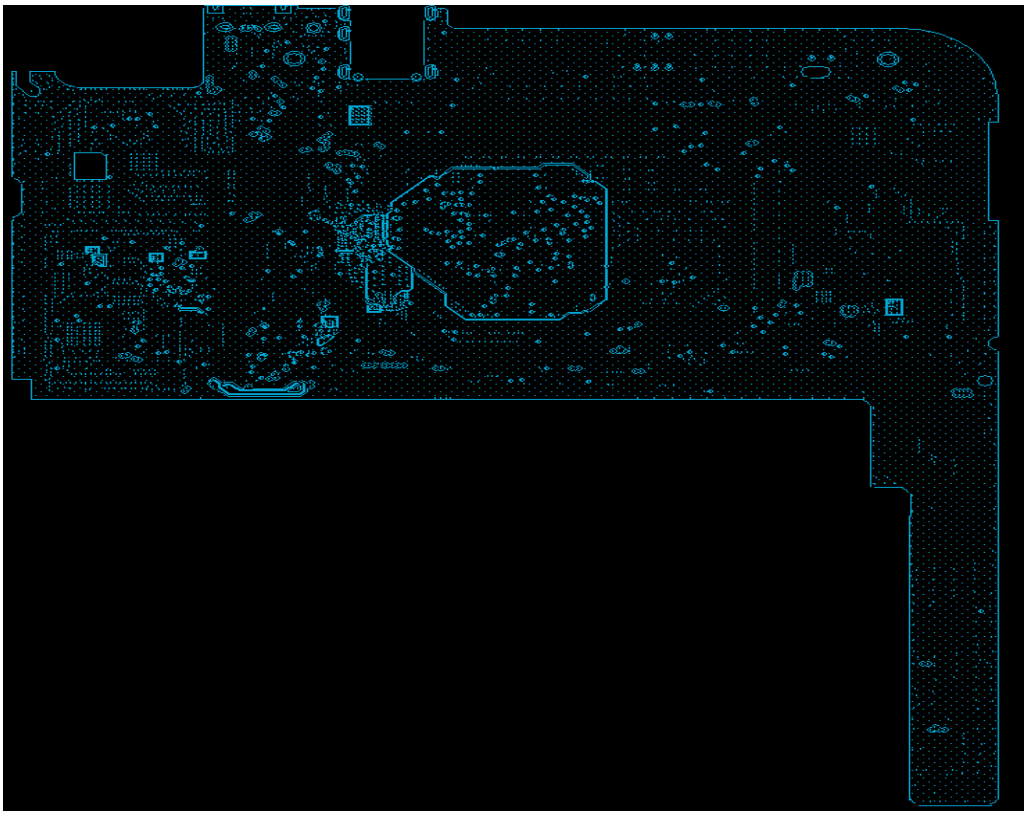
C: GND3 LAYER



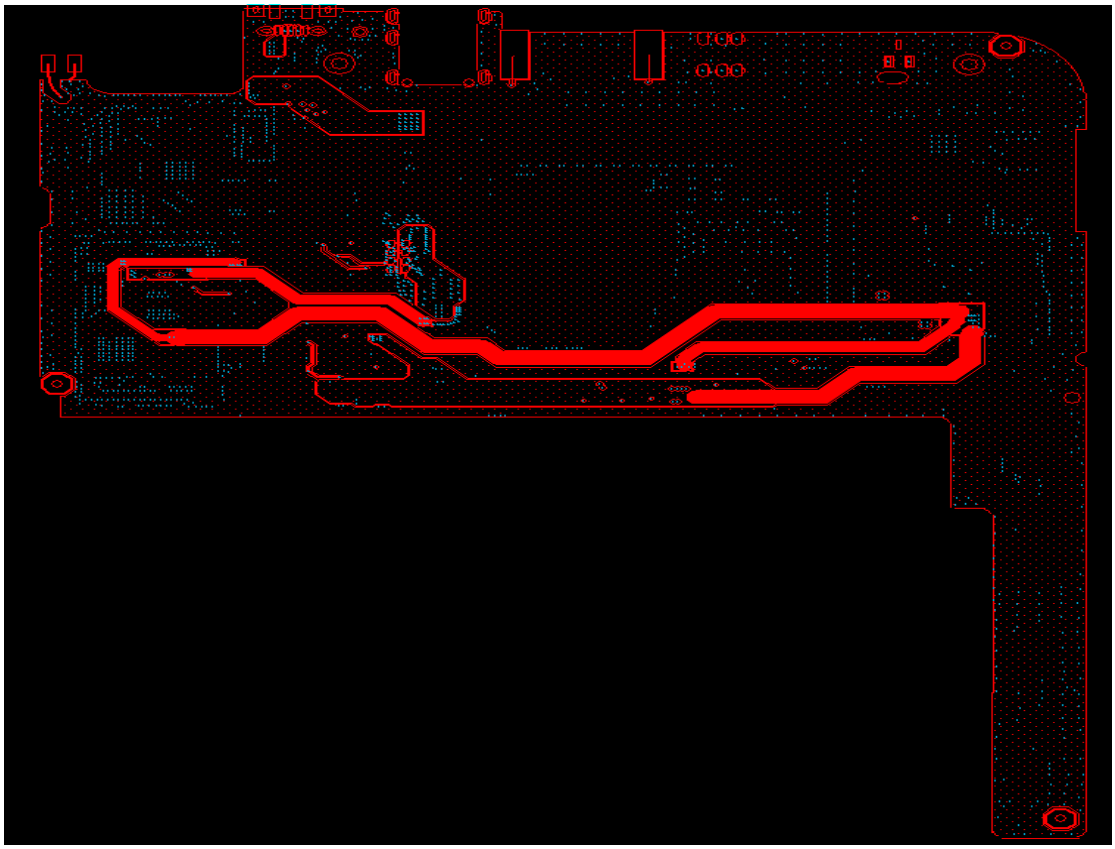
D: L4 LAYER



E:Vcc5 LAYER



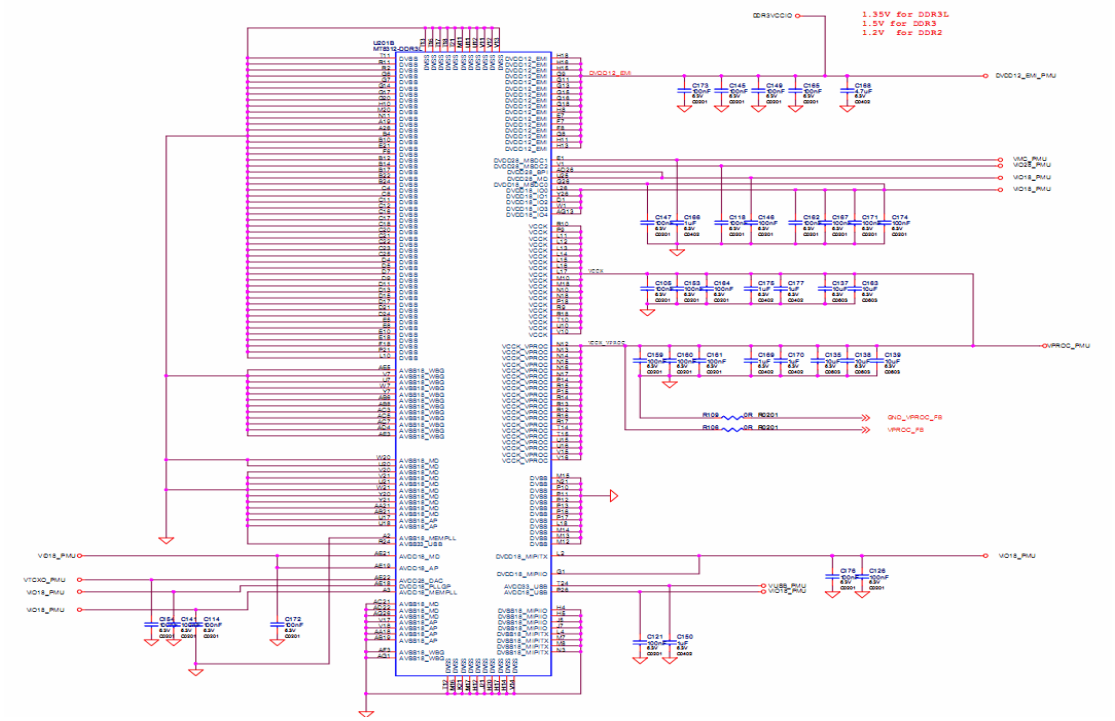
F:Bottom LAYER



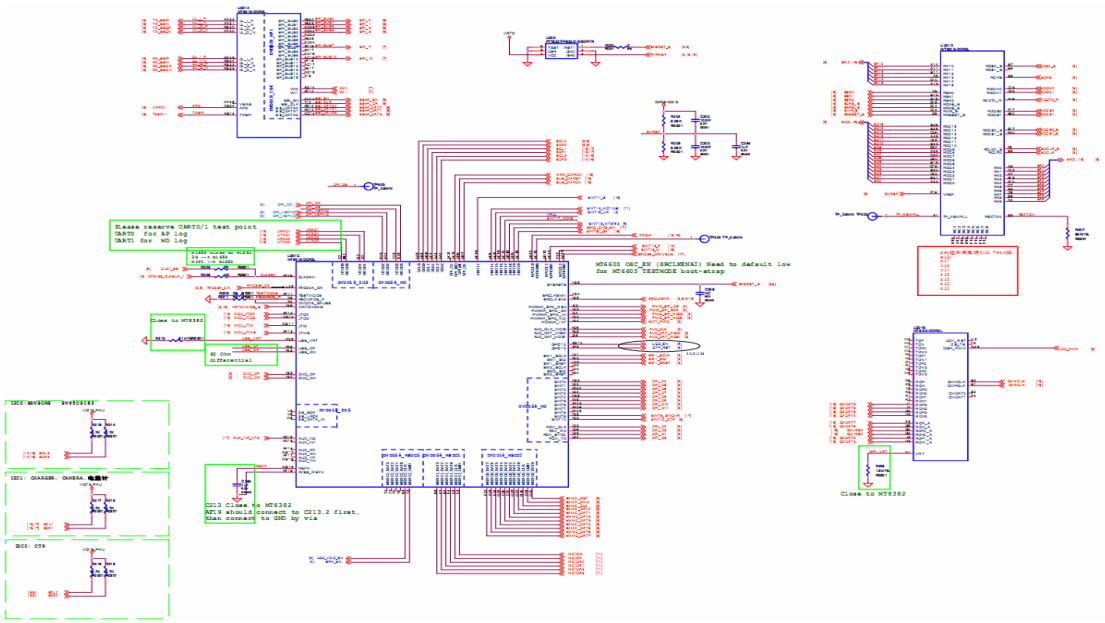
Detailed Circuit

MAIN BOARD

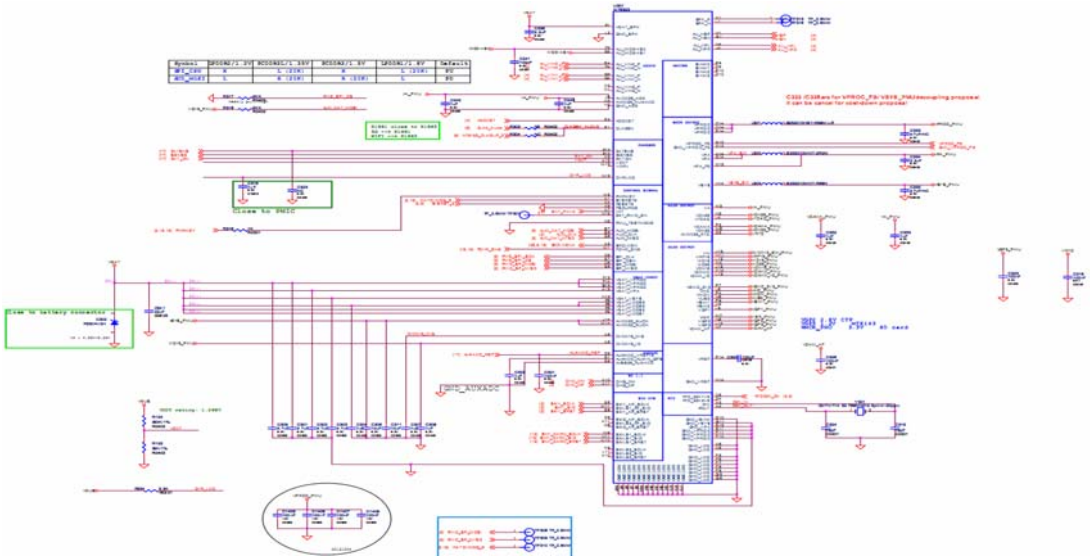
1) MT8312 POWER



2) CPU



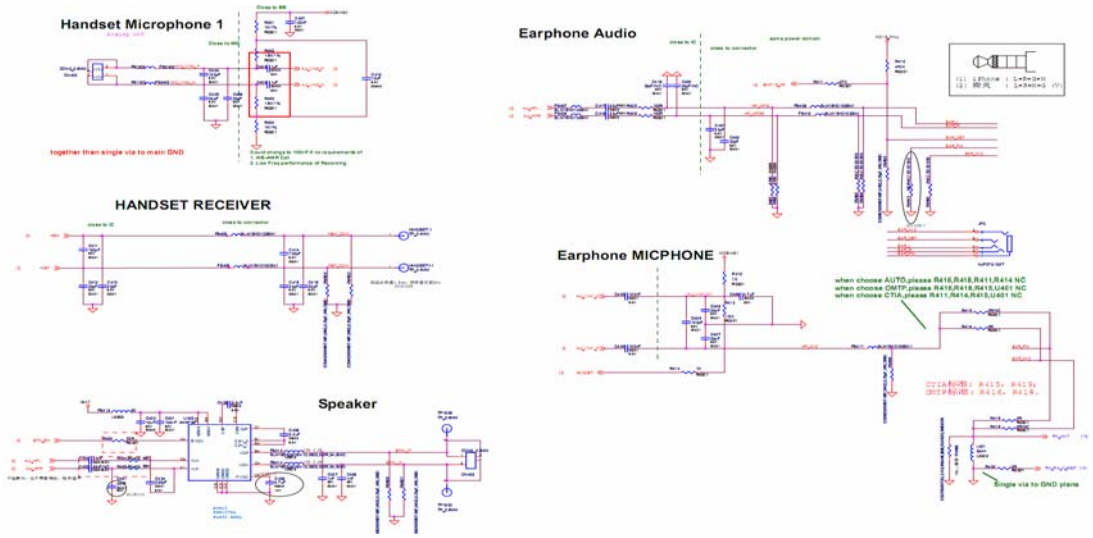
3) MT6323(PMU)



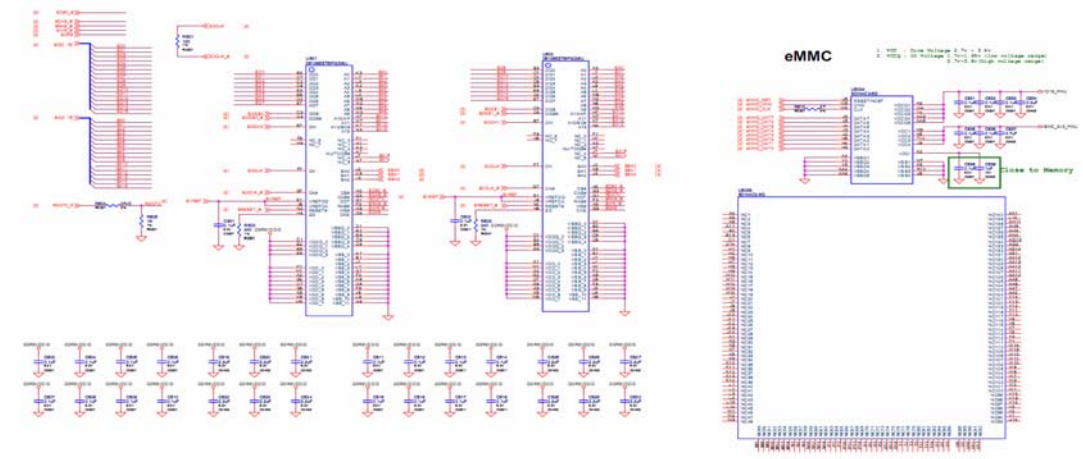
Buck	Output Voltage(V)	Output Current(mA)	Input Decoupling	Output Decoupling	Notes
VPROC	0.7~1.4	2800	>10uF	L=0.68uH,C=10uF*4	Total output cap >40uF
VPA	0.5~3.4	600	>4.7uF	L=2.2uH, C=2.2uF+2.2uF	Output cap range 4.4uF +/-20%
VSYS	2.2	1200	>10uF	L=0.68uH, C=10uF*2	Total output cap >20uF

LDO	Output Voltage(V)	Output Current(mA)	Bypass cap	cap range	Notes
VA	2.8	150	1uF	-20%~+20%	Far-end bypass cap
VCN28	2.8	30	1uF	-20%~+20%	Far-end bypass cap
VTCXO	2.8	40	1uF	-20%~+20%	Far-end bypass cap
VCAMA	2.8	150	3.2uF	-20%~+20%	1uF near-end 2.2uF Far-end bypass cap
VCN33	3.3/3.4/3.5/3.6	240	4.7uF	-20%~+20%	Far-end bypass cap
VRTC	2.8	2	0.1uF to 1000uF	-20%~+20%	Far-end bypass cap
VM	1.24/1.39/1.54/1.84	700	10uF	-20%~+20%	Far-end bypass cap
VRF18	1.825	200	1uF	-20%~+200%	Far-end bypass cap
VIO18	1.8	300	4.7uF	-20%~+200%	Far-end bypass cap
VIO28	2.8	200	2.2uF	-20%~+200%	Far-end bypass cap
VCN18	1.8	120	1uF	-20%~+20%	Far-end bypass cap
VCAMD	1.2/1.3/1.5/1.8	150	1uF	-20%~+20%	Far-end bypass cap
VCAM_IO	1.8	100	1uF	-20%~+20%	Far-end bypass cap
VEMC_3V3	3.0/3.3	400	4.7uF	-20%~+20%	Far-end bypass cap
VMC	1.8/3.3	100	1uF	-20%~+20%	Far-end bypass cap
VMCH	3.0/3.3	400	2.2uF	-20%~+20%	Far-end bypass cap
VUSB	3.3	20	1uF	-20%~+20%	Far-end bypass cap
VSIM1	1.8/3.0	50	1uF	-20%~+20%	Far-end bypass cap
VSIM2	1.8/3.0	50	1uF	-20%~+20%	Far-end bypass cap
VGP1	1.2/1.3/1.5/1.8/2.0/2.8/3.0/3.3	100	1uF	-20%~+20%	Far-end bypass cap
VIBR	1.2/1.3/1.5/1.8/2.0/2.8/3.0/3.3	100	1uF	-20%~+20%	Far-end bypass cap
VGP2	1.2/1.3/1.5/1.8/2.0/2.5/2.8/3.0	100	1uF	-20%~+20%	Far-end bypass cap
VGP3	1.2/1.3/1.5/1.8	200	1uF	-20%~+20%	Far-end bypass cap
VCAM_AF	1.2/1.3/1.5/1.8/2.0/2.8/3.0/3.3	100	1uF	-20%~+20%	Far-end bypass cap
VDIG18	1.8	20	1uF	-20%~+20%	Far-end bypass cap

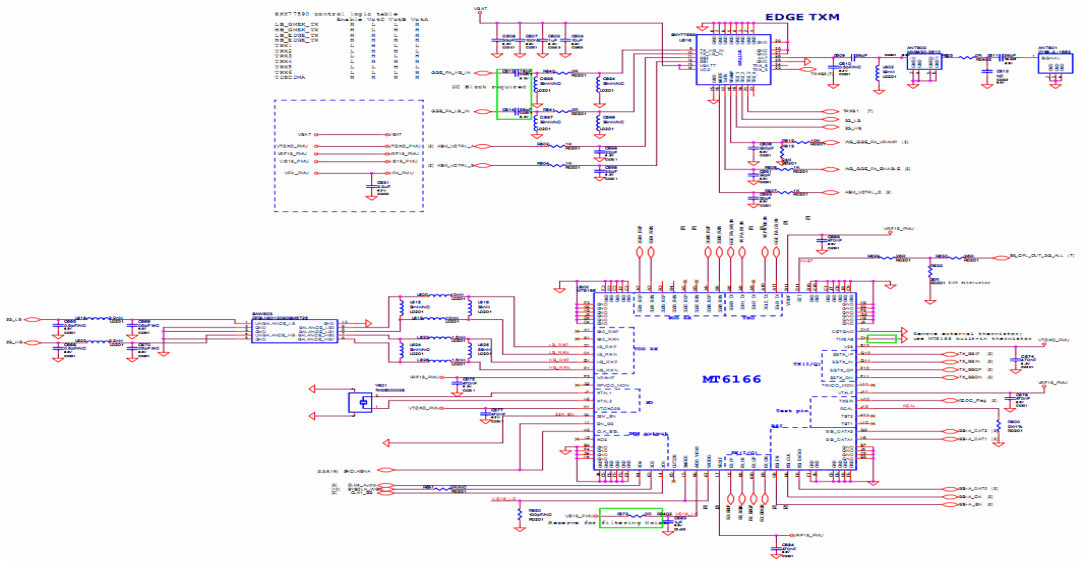
4) Audio

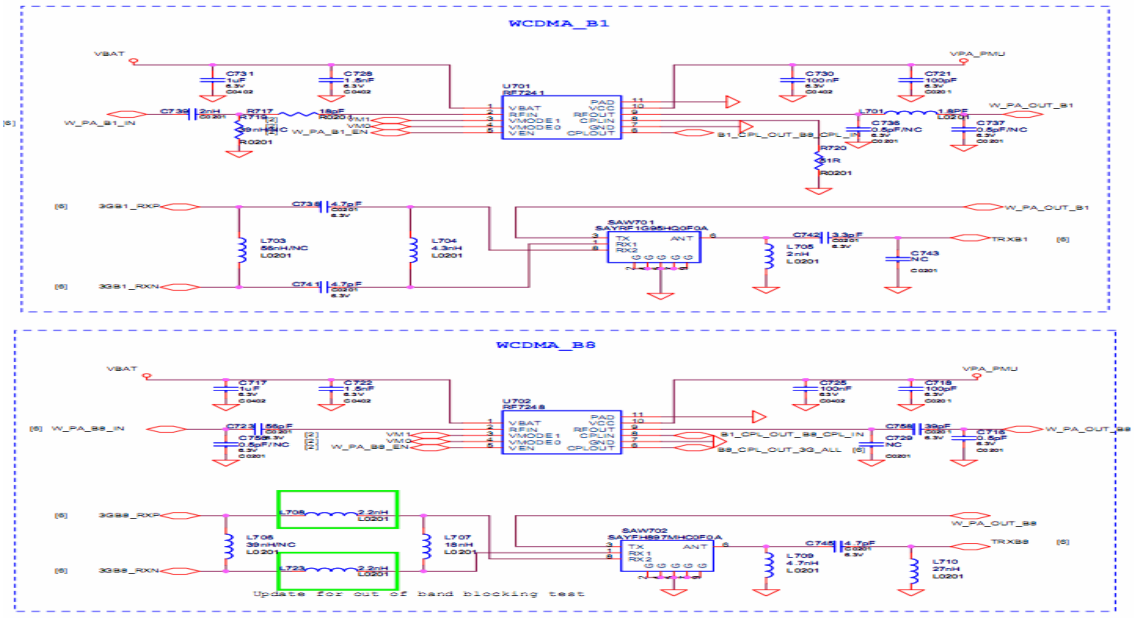


5) DDR and eMMC

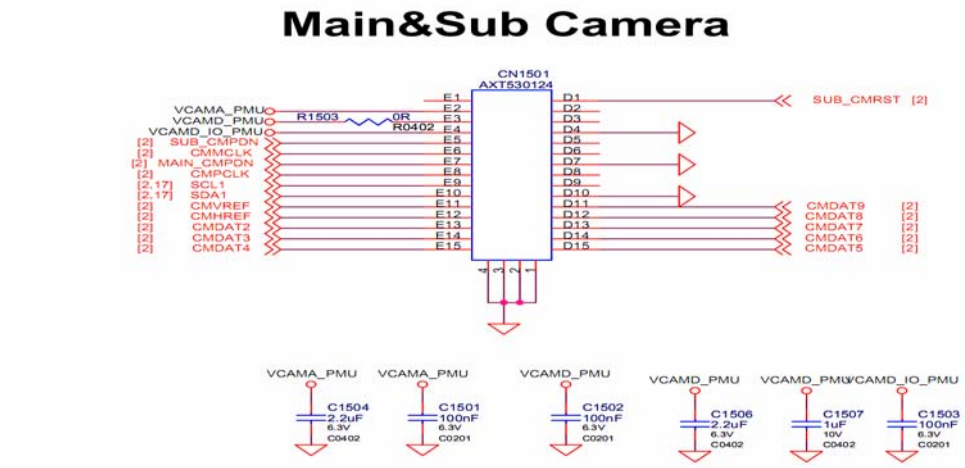


6) RF(MT6166)

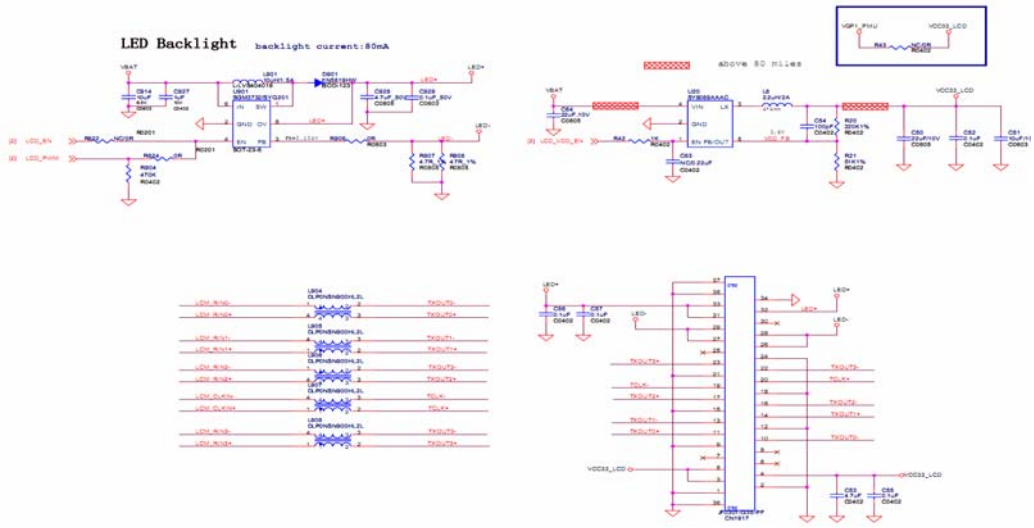




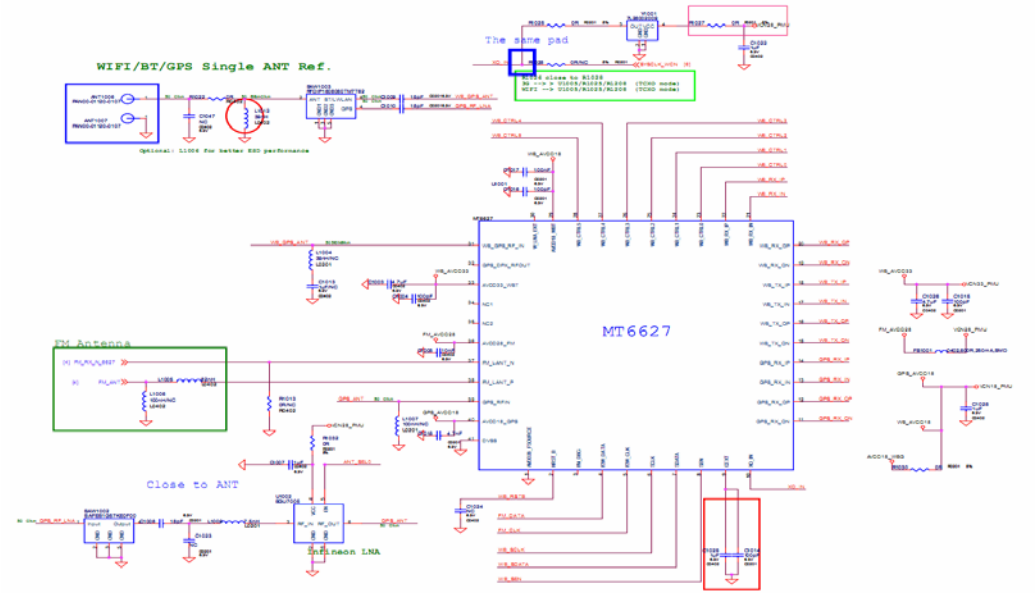
7) Camera(Front)



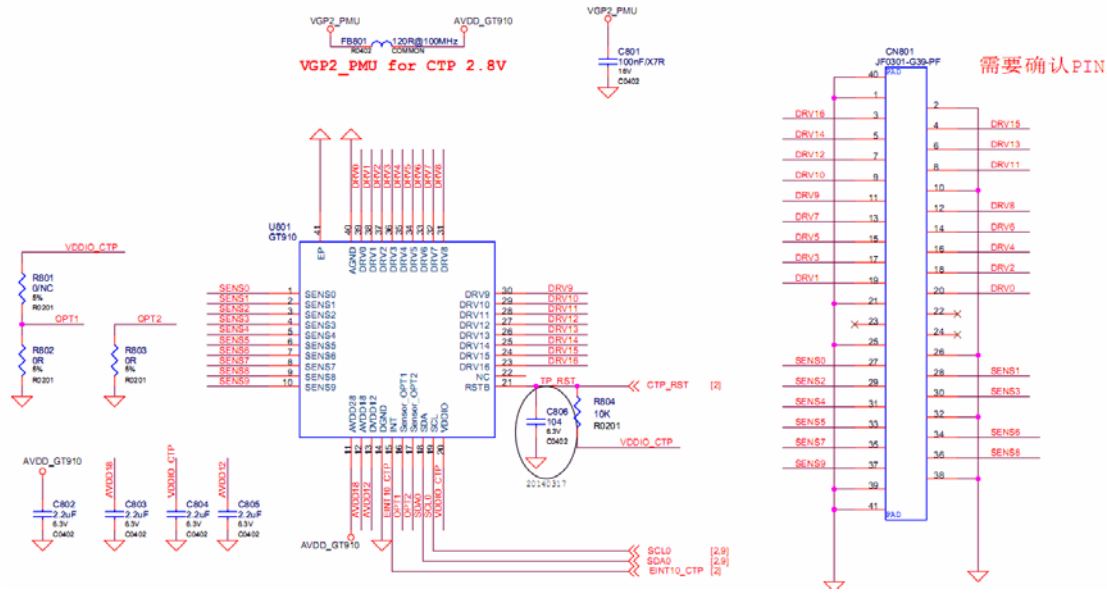
8) LCD and Backlight



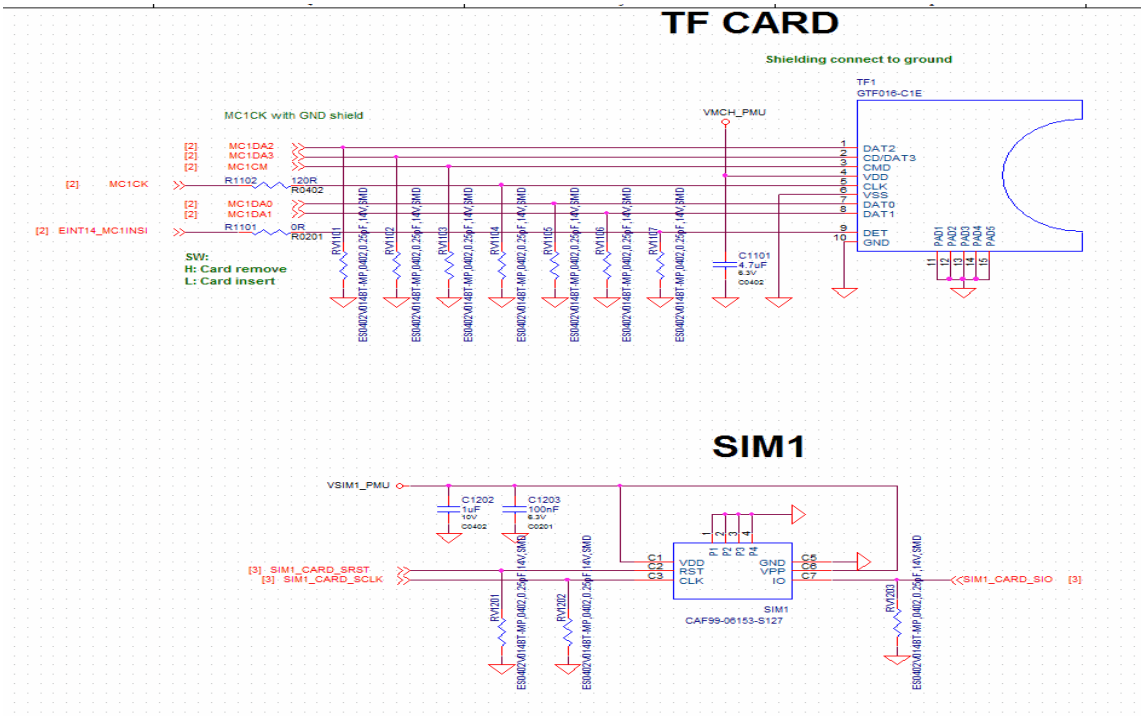
9) WIFI+GPS+ BT+FM



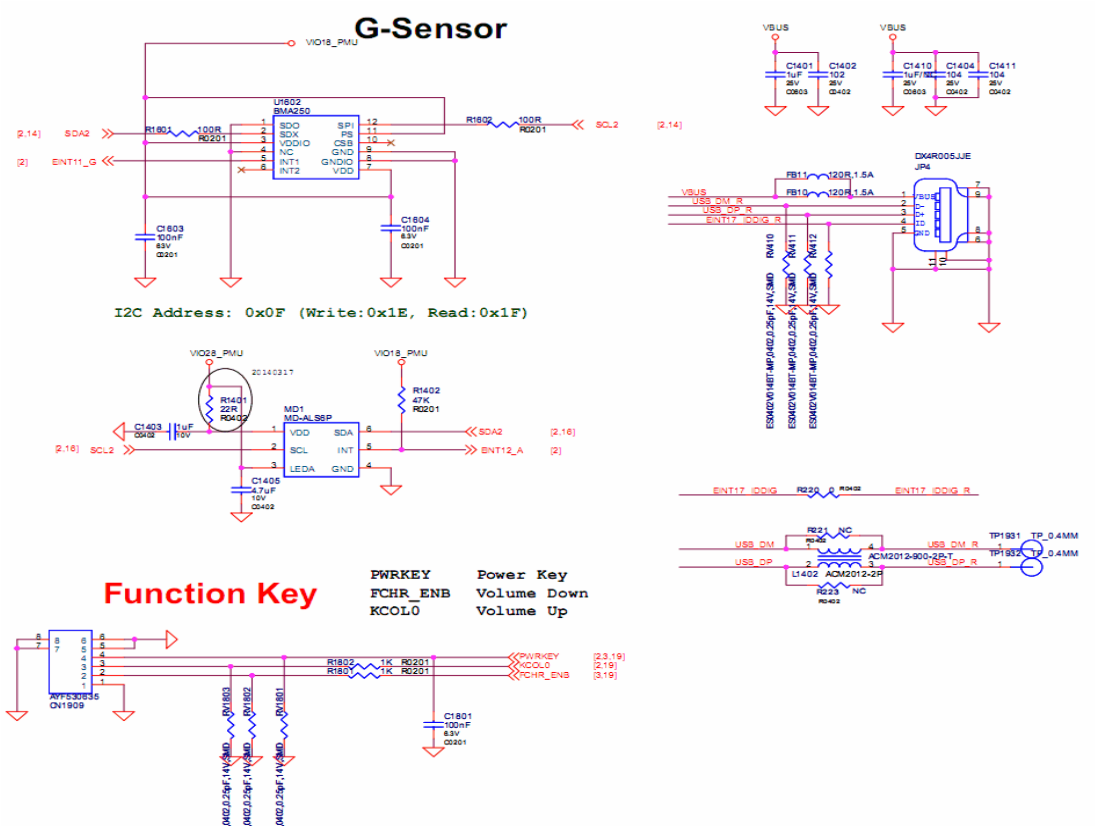
10) CTP



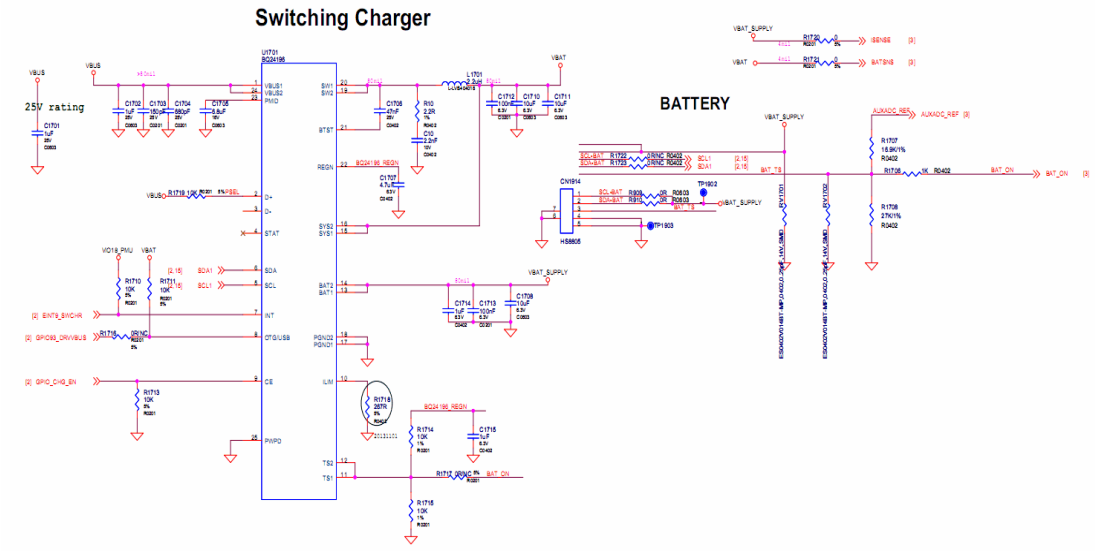
11) SD CARD , SIM CARD

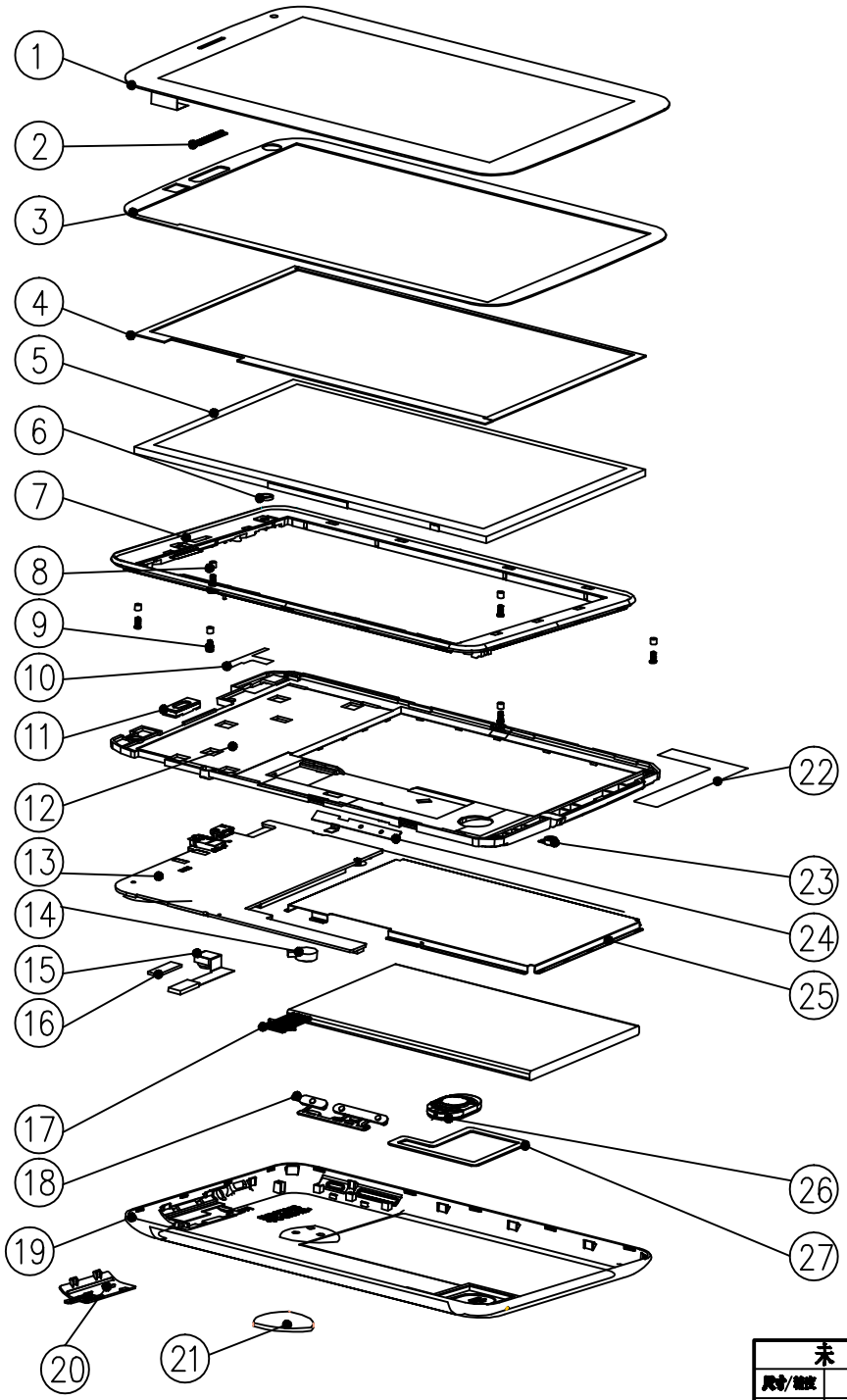


12) Sensors (G-sensor) power key and USB



13) Charger and Vibrator





Item	SPECIFICATION	Qty	Parts No.	Material
27	Irregular poron	1	SMBE7008-H04	ES
26	Speaker	1		
25	hardware support	1	SMBD7021-PT01	
24	keyboard	1		
23	MIC	1		
22	3G antenna	1		
21	LOGO	1	SMBE7018-H04	AL
20	sim/tf case	1	SMBE7003-RE06	P+R
19	rear case	1	SMBE7003-RE03	ABS+PC
18	button	1	SMBE7003-RE04	ABS
17	battery	1		
16	regular poron	1	8.6*4.2*0.6	SR
15	camera	1		
14	motor	1		
13	motherboard	1		
12	middle frame	1	SMBE7003-RE02	PA66+GF30
11	phone receiver	1		
10	Wifi antenna	1		
9	Nickel plating machine screws	6	M1.4*3.5CM1N(圆柱), D=2.4,K=0.5	
8	brass nut	6	M1.4*2,镀,滚花	
7	front cover	1	SMBE7003-RE01	ABS+PC
6	Irregular poron	1	SMBE7003-H03	WS
5	LCD panel	1		
4	Irregular poron	1	SMBE7003-H05	WS
3	Irregular double-sided tape	1	SMBE7003-H01	
2	speaker mesh	1	SMBD7021-PT02	
1	Touch panel	1		

未注尺寸公差						名称: SMB-E7003 爆炸图	型号	SMB-E7003
尺寸/精度							零件号	
XX	±0.10	±0.15	±0.50	±1.00	±2.00		版本	V1.0
XX.x	±0.05	±0.10	±0.20	±0.50	±1.00		材料	
XX.xx	±0.02	±0.05	±0.10	±0.20	±0.50	设计	比例	
角度/精度						审核	数量	个/单机
XX	±1°					批准	共 张	第 1 张
XX.x	±0.5°					万利达集团有限公司 WANLIDA GROUP CO., LTD		
XX.xx	±0.2°							

Troubleshooting

1) Trouble 1:The tablet can't be charged when inserting the adapter

Possible Cause:

1) Check if the voltage of CN1701 is above 3.4V. If it is, the touch between the usb connector and main board is bad ,either the usb connector ,fpc connector or the soft fpc is bad

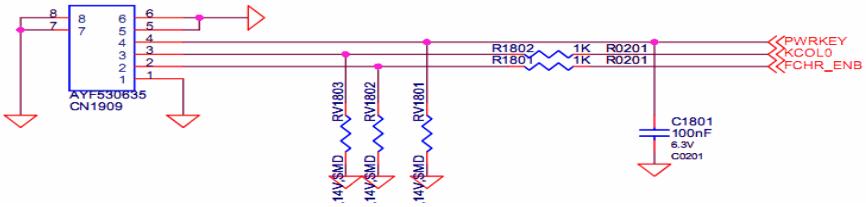
2) check U1701,if the welding is ok

3) the LCD is bad ,can not display the charger Icon, change the LCD module

2) Trouble 2: No reaction when turns on

Possible Cause:

1) Check if the connector CN1909 is ok, if it is , check the resistor RV1801 'state
2) cheek if the battery's voltage is below3.4V, if it is, please insert the adapter to charge the tablet
3) check the keyboard fpc: if the fpc is ok ,if it is not ,please change another, if it is, please check the fpc is well inserted
4) check if the fpc between LCD and main board is ok
5) download the tablet again

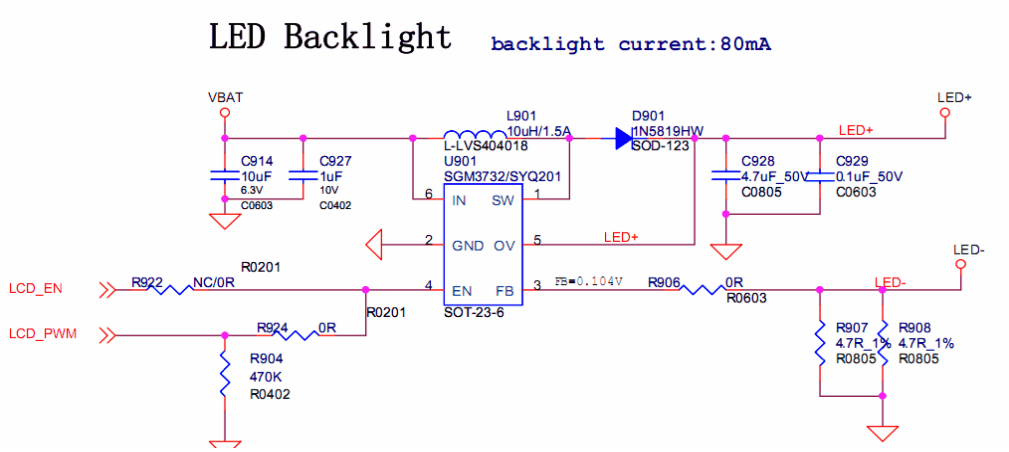


3) Trouble 3: backlight of LCD is not lights after turns on

Possible Cause:

1) check if the fpc between LCD and main board is ok
2) check if the power VBAT is in good state
3) check the whole Pathway is ok
4) check U901 is ok

the control circuit as below:



4) **Trouble 4:LCD is not light or appears in white color**

Possible Cause:

1) check if the fpc between LCD and main board is ok
2) change the LCD module
3) check if the EMI comments L904---L908 is ok
4) check the power VCC33_LCD and LCD_VDD_EN ,LED+ are in proper state

5) **Trouble 5: Nonfunctioning Camera**

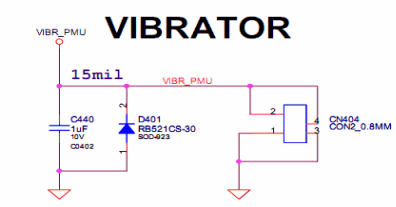
Possible Cause:

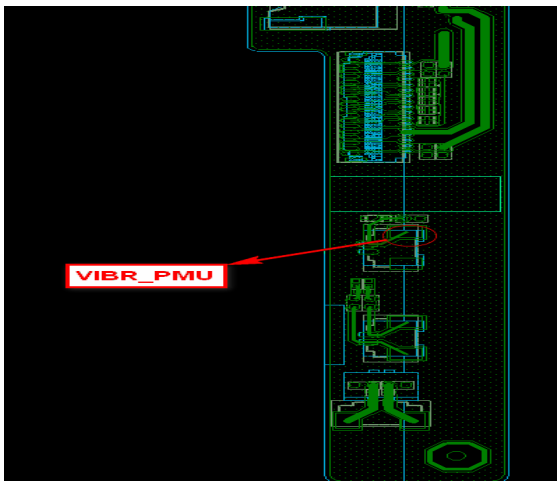
1) check CN1501 is ok
2) check the power VCAMA_PMU, VCAMD_PMU, VCAMD_IO_PMU is in proper level
3) change the bad camera

6) Trouble 6:Vibrator is not worked

Possible Cause:

1) Check the power VIBR_PMU is in proper level
2) Change another Vibrator

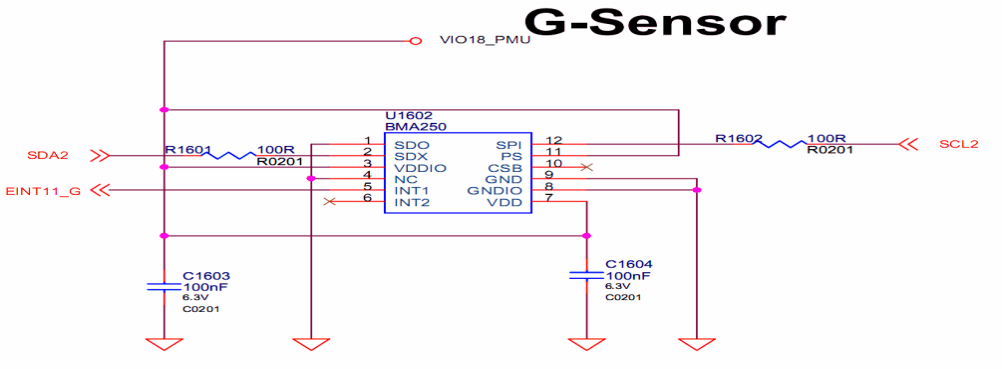




7) Trouble 7:G-sensor is not worked

Possible Cause:

1) Check the power VIO18_PMU is in proper state
2) Change U1602



8) Trouble 8: ALS-sensor is not worked

Possible Cause:

1) Check the power VIO28_PMU, VIO18_PMU is in proper level
2) Check the welding of MD1 is ok
3) Change the module of MD1(8717C_V3.0)

9) Trouble 9: NO network

Possible Cause:

1) make sure the RF Antenna is in well state
2) check the power VSIM1_PMU is in proper level
3) measure the waveform of SIM1_CARD_SIO, SIM1_CARD_SCLK,check the waveform is good
4) change component SIM1
5) Check the RF part's circuit is ok

10) Trouble 10: can't read SD card

Possible Cause:

1) Check VMCH_PMU is in proper level
2) Measure the waveform of MC1CK,MC1DA0—MC1DA3,check the waveform are good
3) check if the comments RV1101---RV1107 is ok
4) change component TF1

11) Trouble 11: CTP can't touch or no response

Possible Cause:

1) Check CN801 is ok
2) Check the power VGP2_PMU is in proper level
3) Check U801's welding is correct
4) Check the soft fpc well connected between the main board and the TP

5) Change another TP

12) Trouble 12: WIFI ,BT cannot open

Possible Cause:

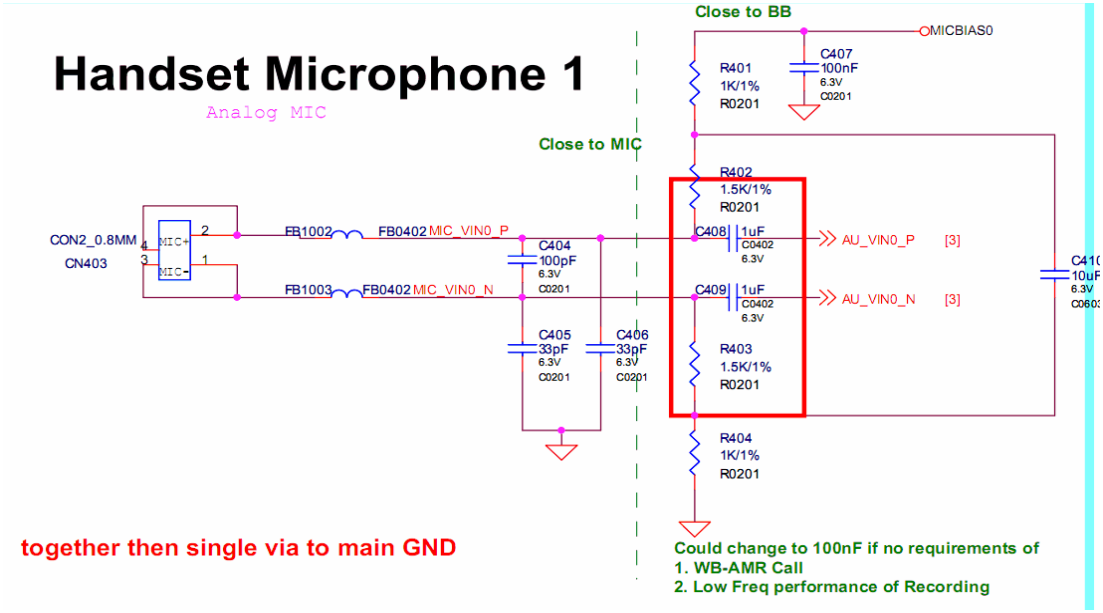
1) Check the WIFI/BT 2 in 1 Antenna is in proper state
2) Check all the power related to WIFI and BT are in correct level
3) Check the main chip U1001's welding is ok (MT6627)

13) Trouble 13: MIC has no response

Possible Cause:

1) Check the MIC, if it is damaged
2) Check the power Micbias0 is in proper level
3) Check FB1002,FB1003 ,make sure they are not be damaged

The follow is main circuit

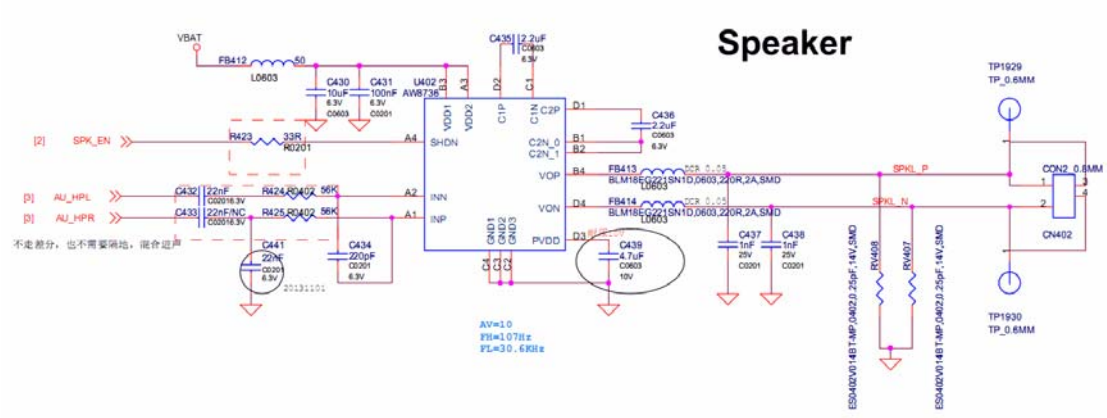


14) Trouble 14: No sound for Speaker

Possible Cause:

1) Check the Speaker, if it is damaged
2) Measure the power Vbat, if it is existed, and if its level is correct
3) Measure the waveform of C432 ,if the waveform is ok
4) Check the welding of U402
5) Check RV408,RV407,FB413,FB414

The follow is main circuit

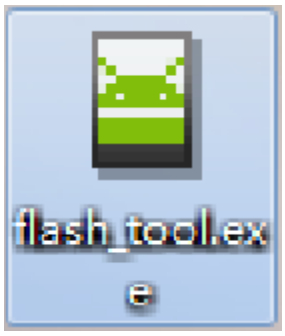


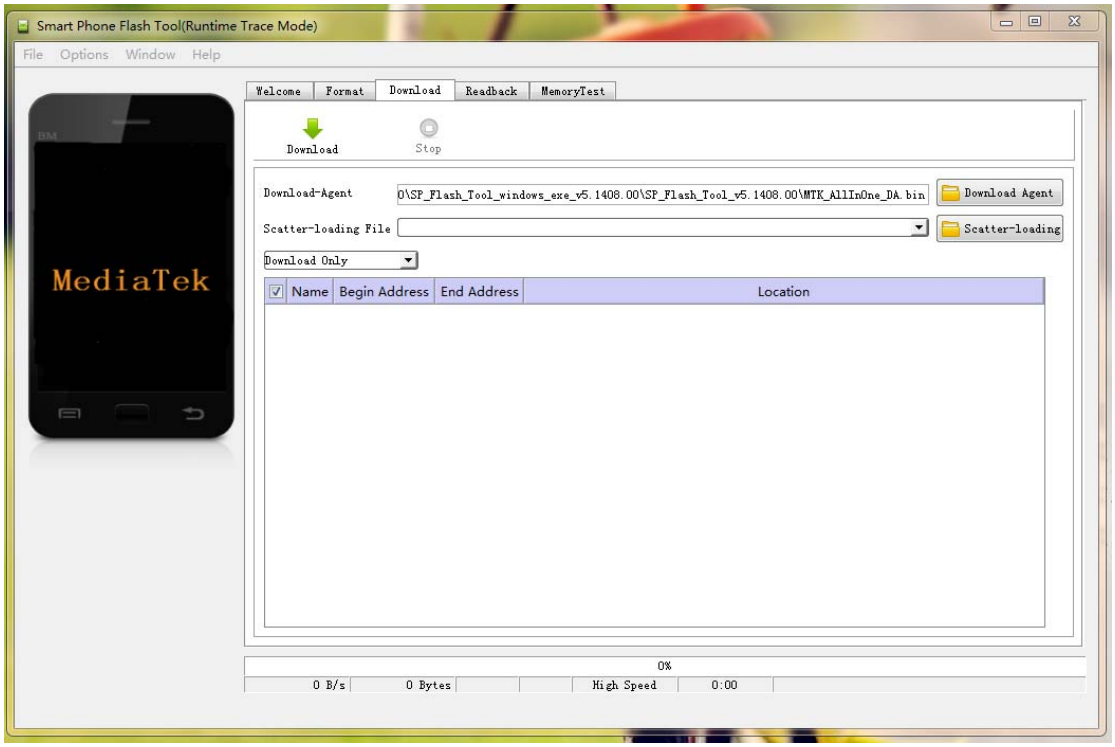
Firmware Update Guide

(MTK Download tool)

1. Before use this tool, please install drivers.

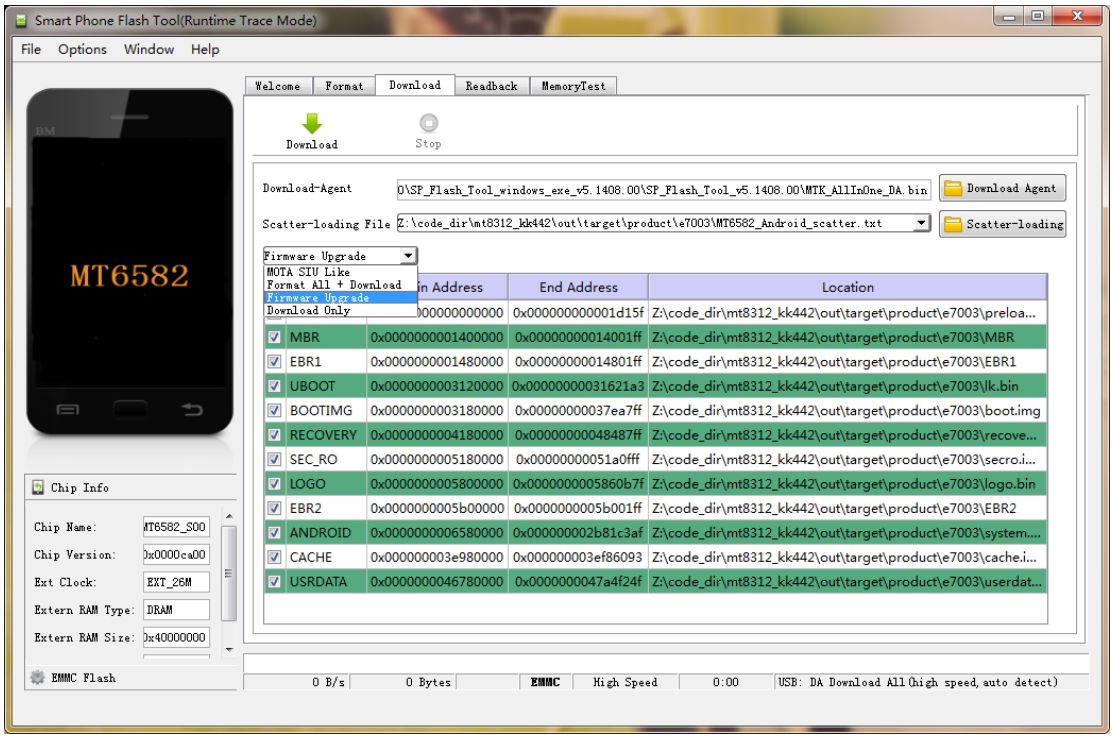
2. SP_Flash_Tool





(1) Click “Scatter-loading”
Download Image folder include “MT6582_Android_scatter_emmc.txt” file, select it.

(2) Click the ComboBox which is below “Scatter-loading” and select “Firmware-> Upgrade” .Then click the “Download” button which is on the left of the “Stop” button.



(3) Shutdown and reset the device, and then connect the device to PC.
OR “adb reboot” the device.

(4) Wait to finish.

