

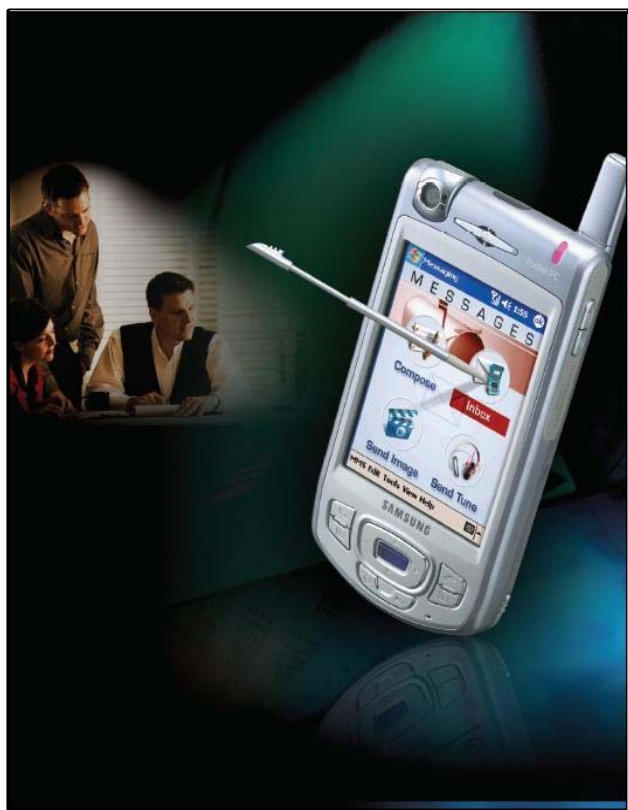
SAMSUNG

GSM TELEPHONE

SGH-i700

SERVICE *Manual*

GSM TELEPHONE



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2. Flow Chart of Troubleshooting
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1. SGH-i700 Specification

1.1 PDA specification

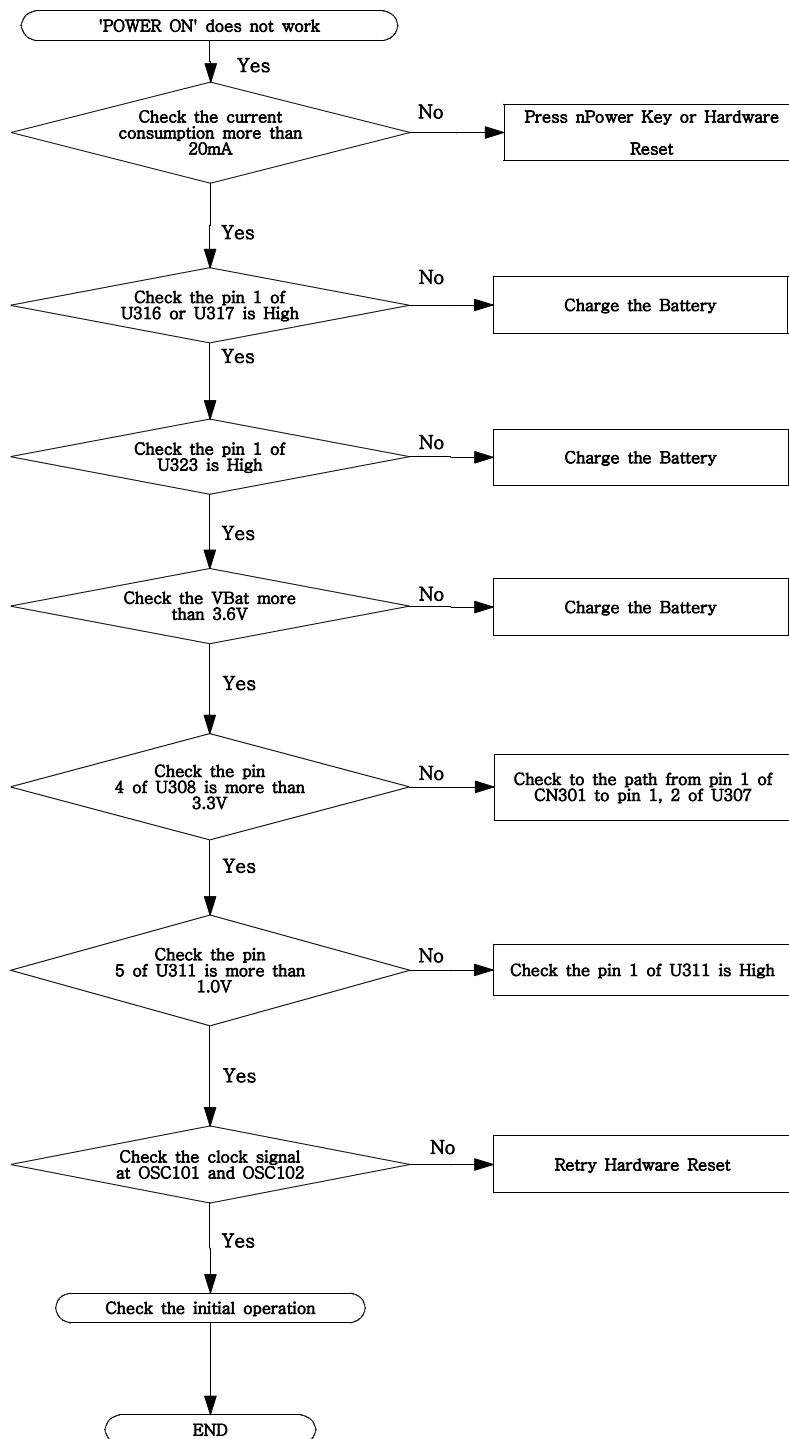
Parts Name		Description	Note
CPU		PXA255 Core : Intel(r) Xscale(TM) Core Frequencies : 100 ~ 400 MHz Clock : 3.6864 MHz, 32,768 KHz	
Memory	ROM	RD48F3300LOZDQ0, Flash Memory, 16M * 32 Bit	
	RAM	K4M513233, SDRAM, 4 Bank, 16M * 32 Bit	
LCD		Resolution : 240 * 320	
Audio CODEC		WM9705, 18-bit stereo audio, 4-wire touch screen	
Melody		YMU762, 40 poly	
SD Card		SPI Mode	
Camera		1/4" VGA CMOS Color Image Sensor, 640 * 480 Pixels, SPI Mode	
JTAG		IEEE 1149.1 Portocol support, Flash Programming Control	
Ethernet		Flash Programming Control	
UART		RS-232C	
IrDA		STUART's transmit and receive	
Battery	Main	Standard/Extend Capacitance : 1050/2000mA	
	Backup	Capacitance : 30mA	
Speaker		Impedance : 8 Ω , Size : Φ 20 mm * 4.6t	
Receiver		Impedance : 32 Ω , Size : Φ 12 mm * 3.2t	
Motor		RPM 7000 ~12000, Size : Φ 14 mm * 3.4t	
Key Matrix		4 * 4	

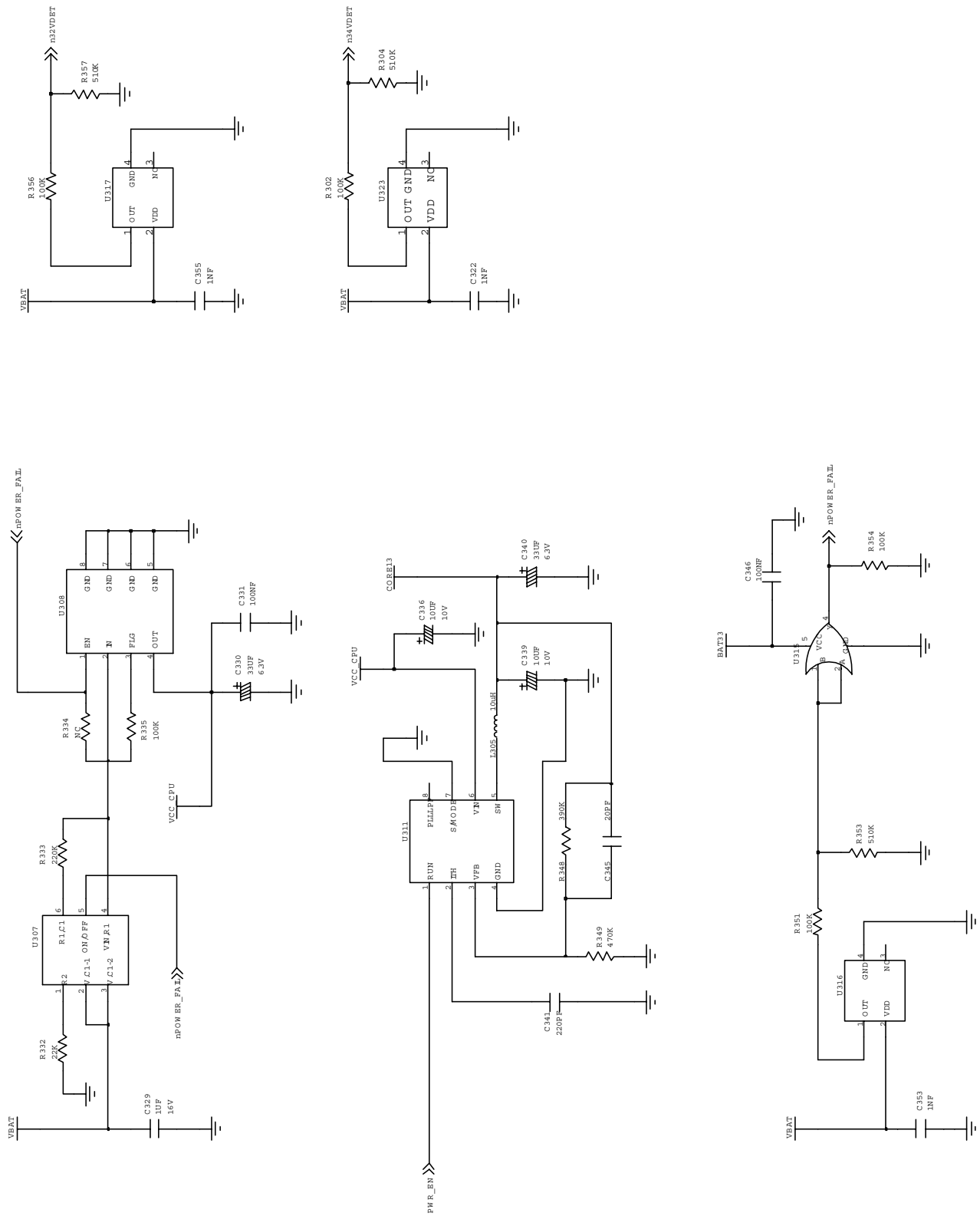
1.2 Phone Specification

Parts Name	Description	Note
CPU	Trident EF version Core : DSP16000/ARM7IDM DSP Core : RAM(20k * 16), ROM(144K * 16) ARM CORE : RAM(4K * 32), ROM(2K * 32) Clock : 13 MHz, 32,768 KHz	
Memory	LRS1826A ROM : 4M * 16 Bit * 2 RAM : 2M * 16 Bit	
PMIC	Single-cell Li-Ion Charger, SIU, LED Driver Power-On/Off and reset control logic 8-bit ADC, Seven programmable low-drop-out regulators 1.8/3.0V SIM power supply and logic level translators	
CODEC	Supports GSM 2+ new feature : multislotting(GPRS and HSCSD) ADC and DAC function for baseband and voice band DAI(digital audio interface) 32.768 clock on-chip oscillator GMSK modulator(88/144 bits)	
RF Transceiver	Low-IF Receiver, Universal Baseband Interface Offset-PLL Transmitter Dual RF Synthesizer, GPRS Class 12 Compliant Serial Interface Dual and Triple-Band Support(GSM850/E-GSM900/DCS1800/PCS1900)	
PAM	Complete Power Control Solution Single 2.9V to 5.5V Supply Voltage GSM, E-GSM and DCS/PCS Products/GPRS Class 12 Compatible + 35dBm GSM Output Power at 3.5V/ + 33dBm DCS/PCS Output Power at 3.5V	
Diplexer	GSM : 897.50 ± 17.5 MHz DCS : 1747.50 ± 37.5 MHz GSM : 1880.00 ± 30.0 MHz	
JTAG	IEEE 1149.1 Protocol Support, Flash Programming Control	
UART	RS-232C	

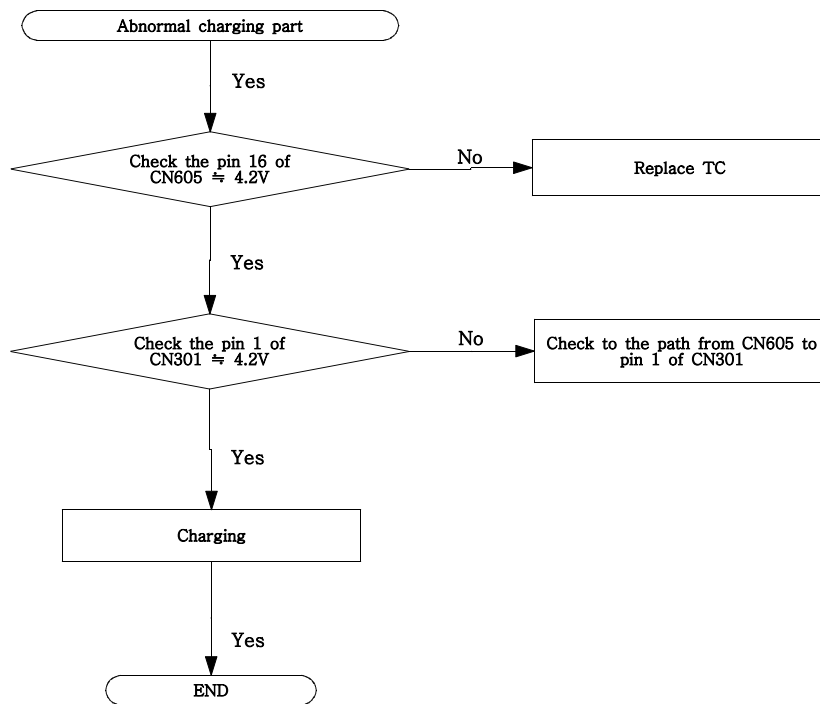
2. SGH-i700 Flow Chart of Troubleshooting

1.Power On

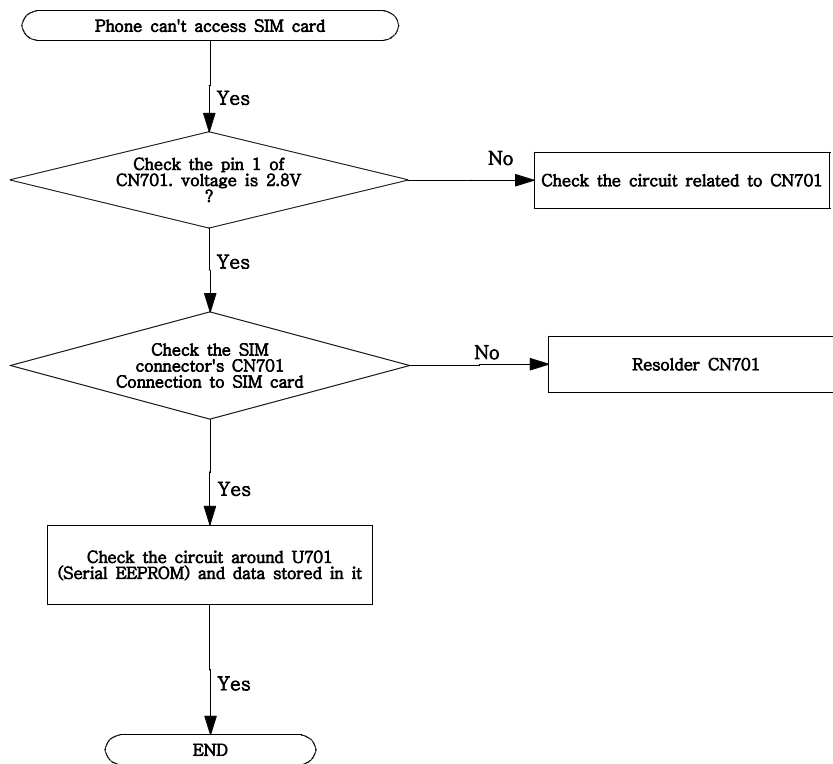


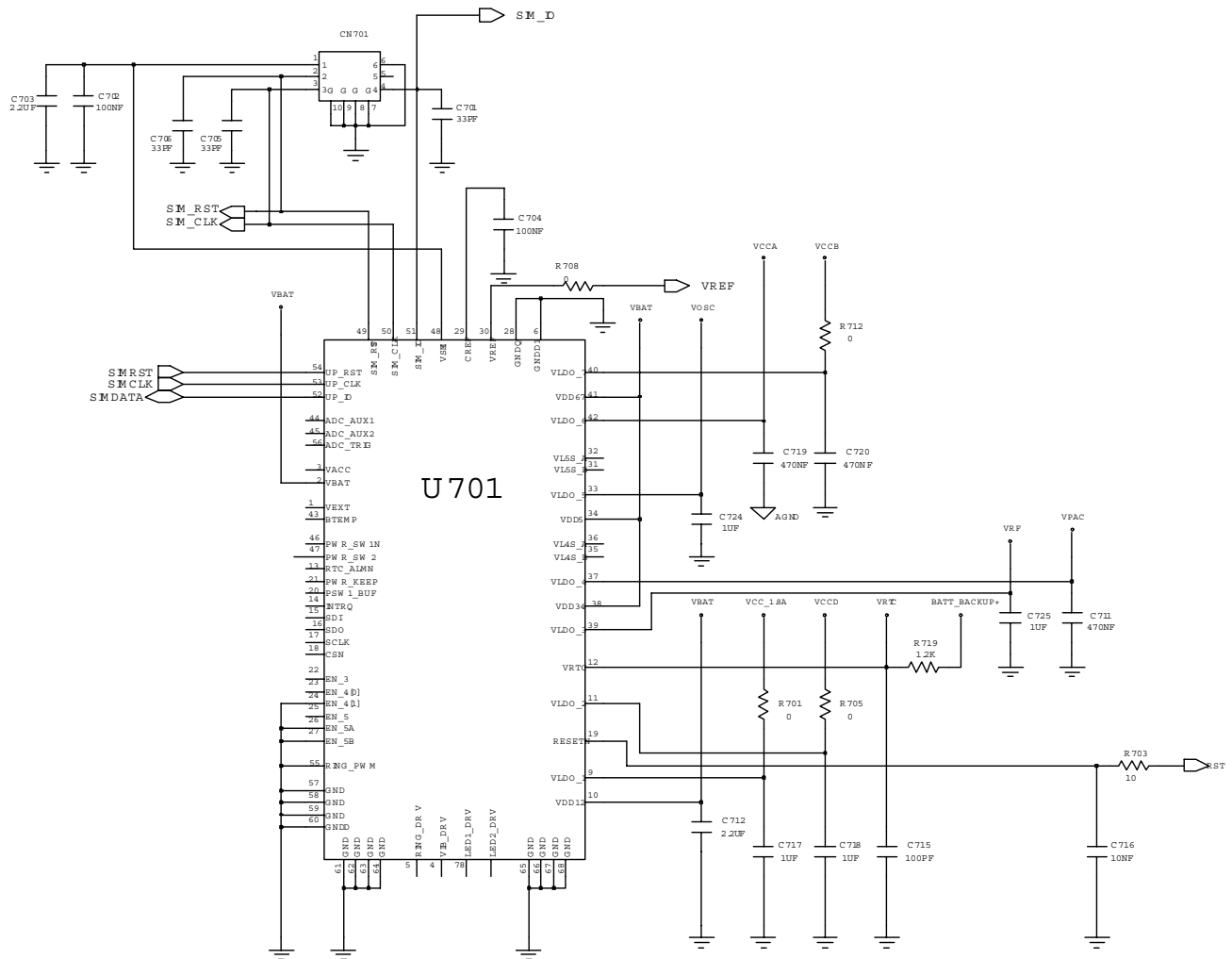


3. Charge Part



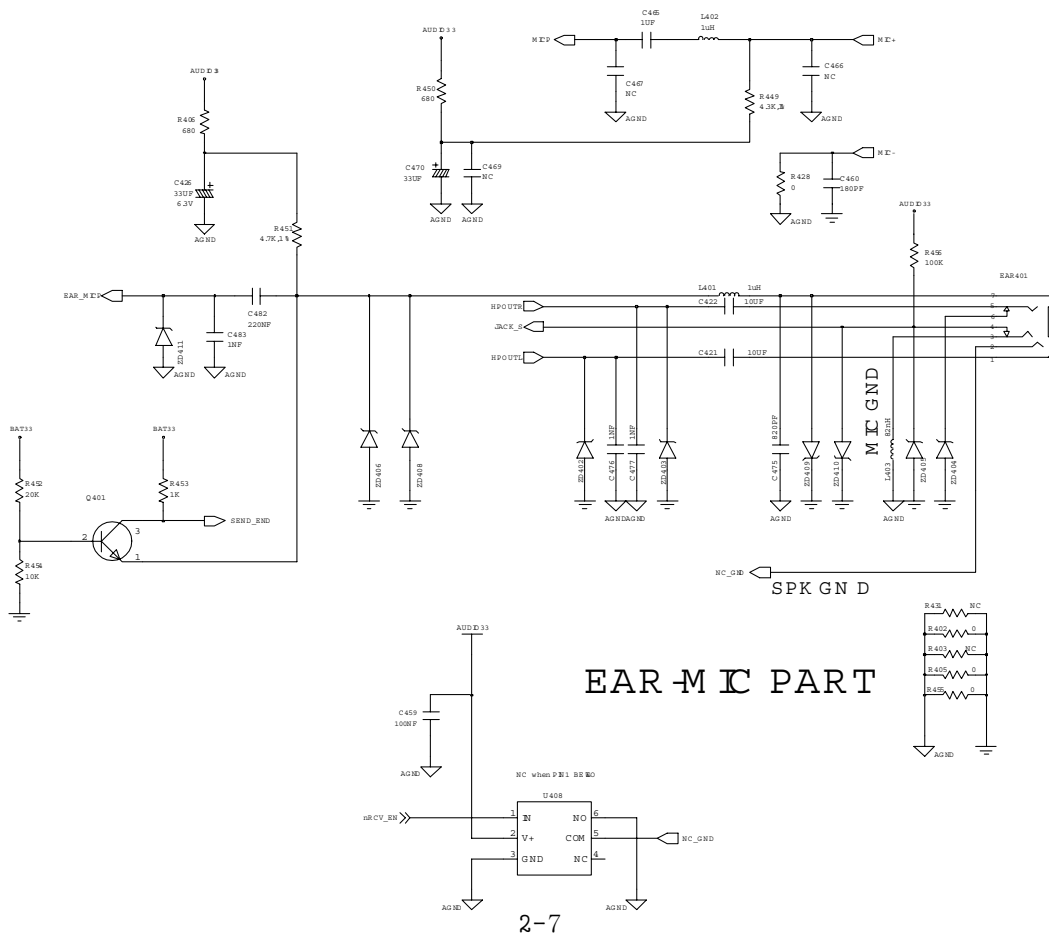
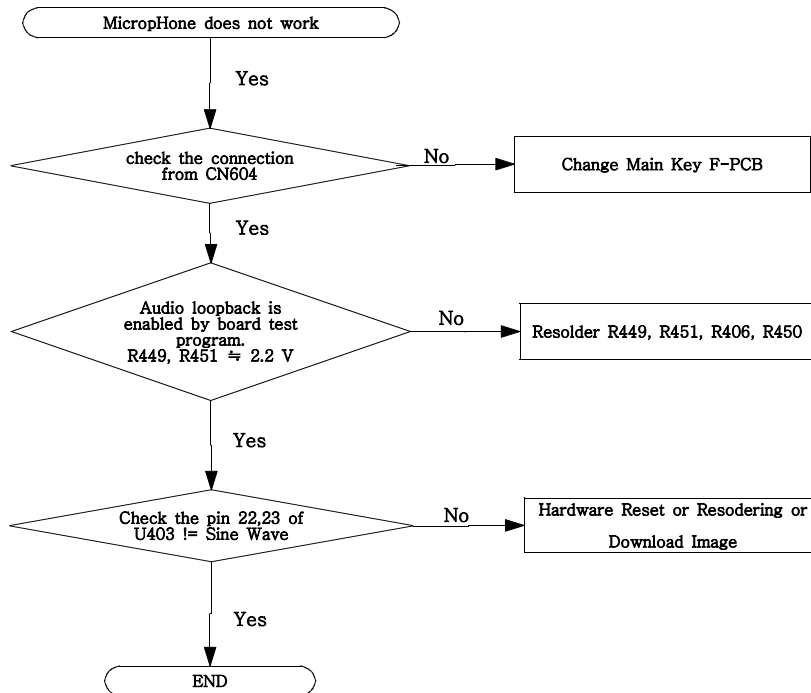
4. SIM Part



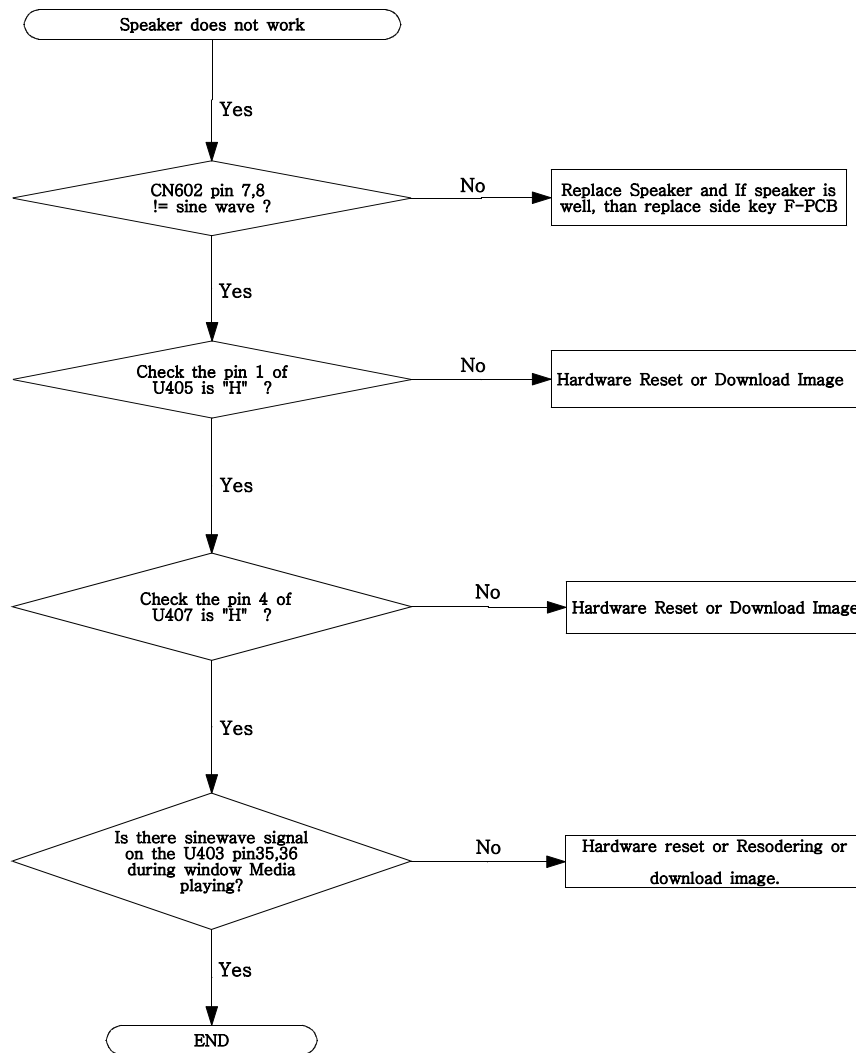


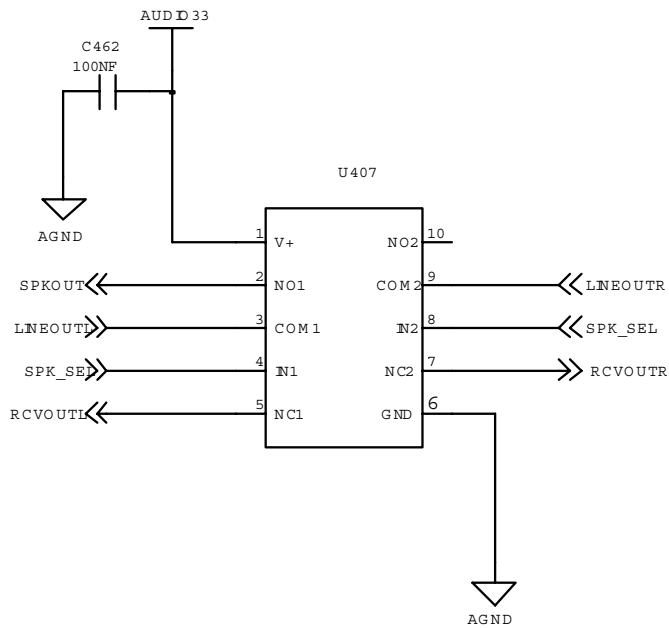
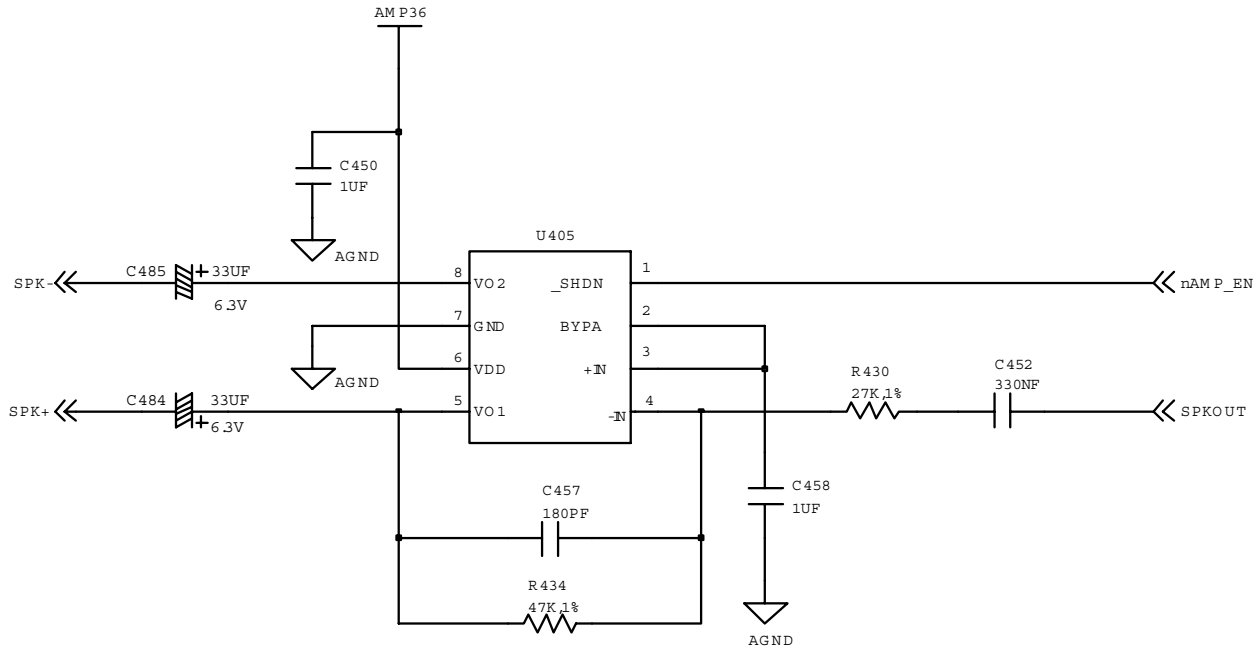
POWER

5. Microphone Phone

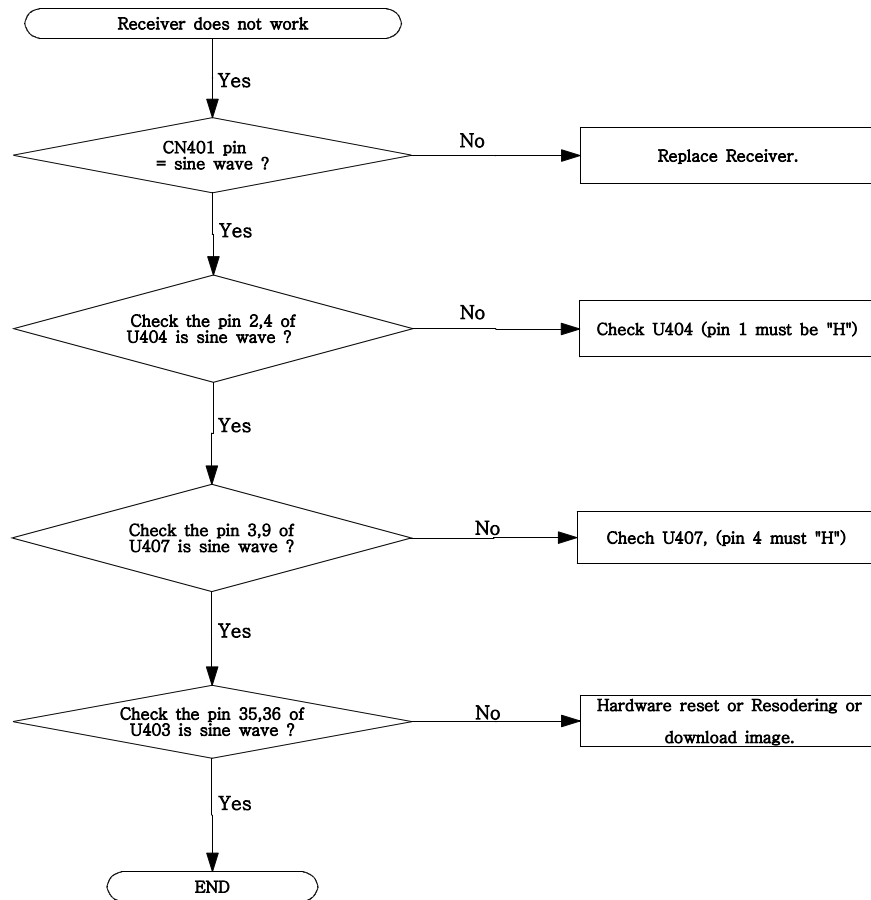


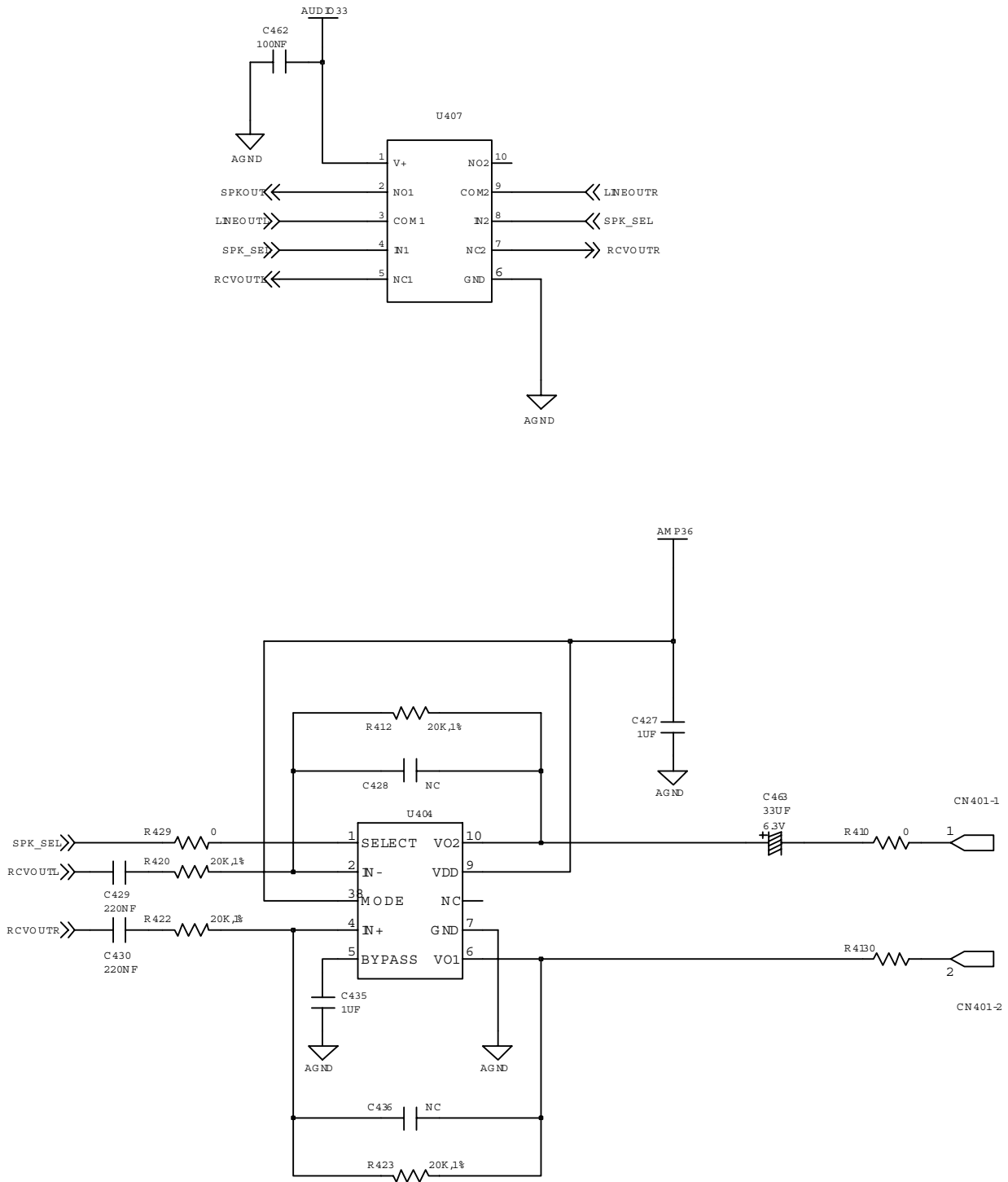
6. Speaker Part



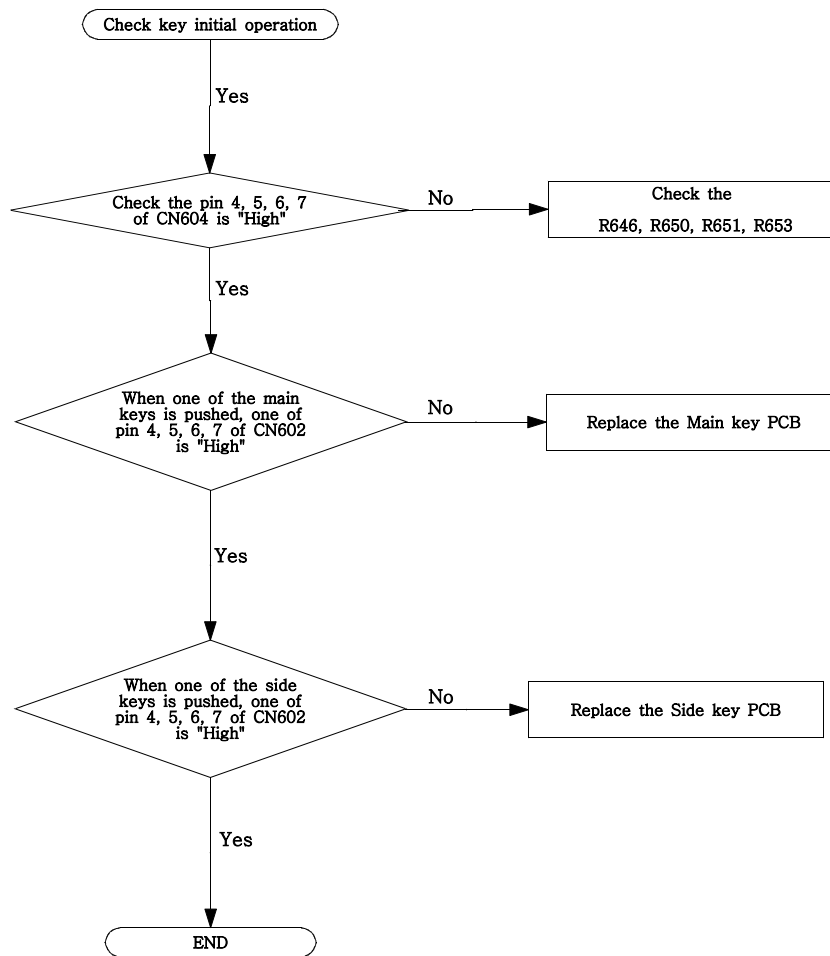


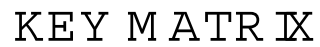
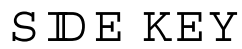
7. Receiver Part



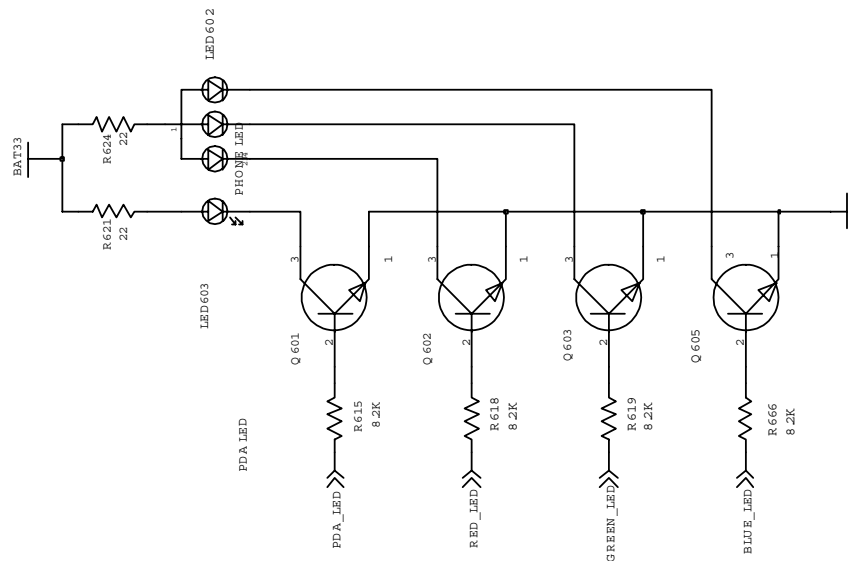
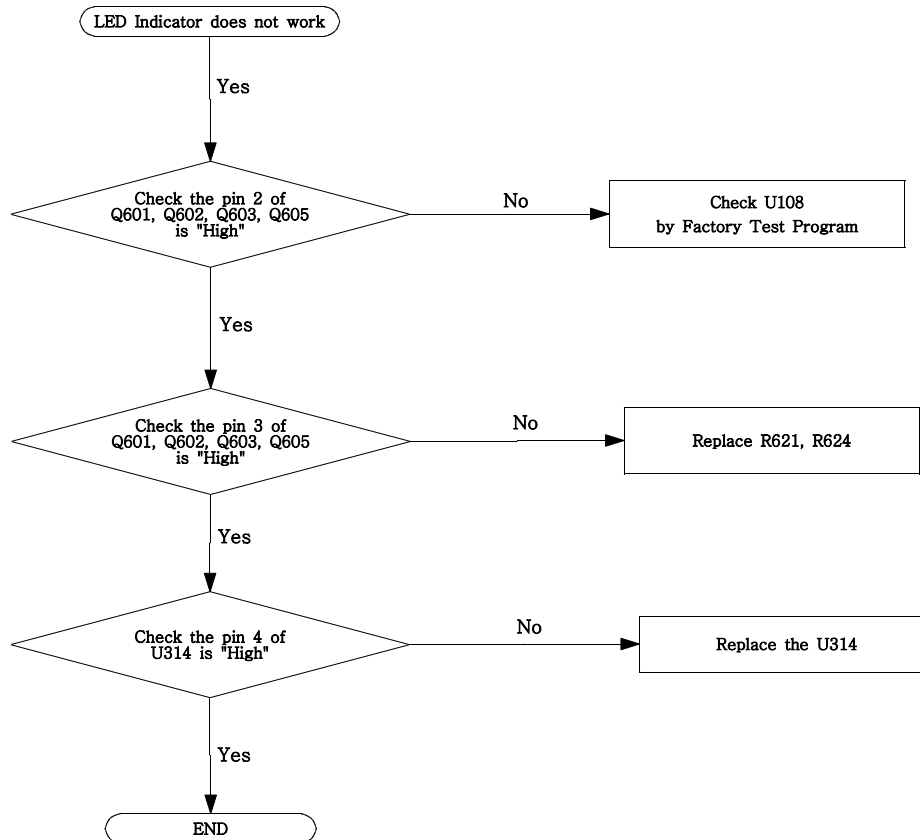


8. Key Matrix Part



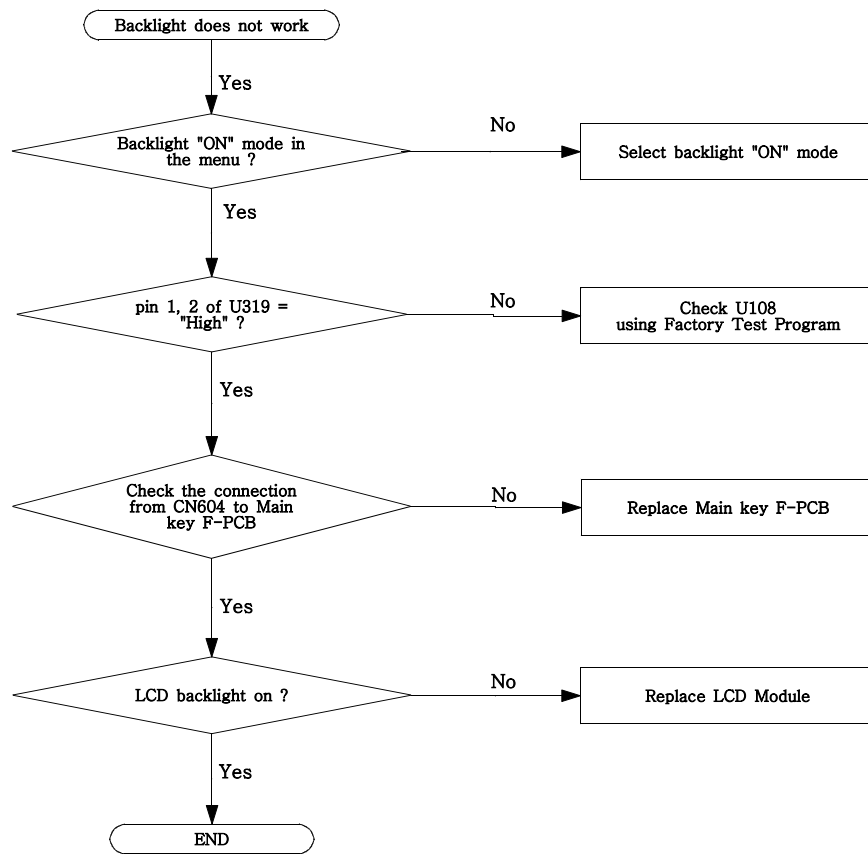


9. Led Indicator Part

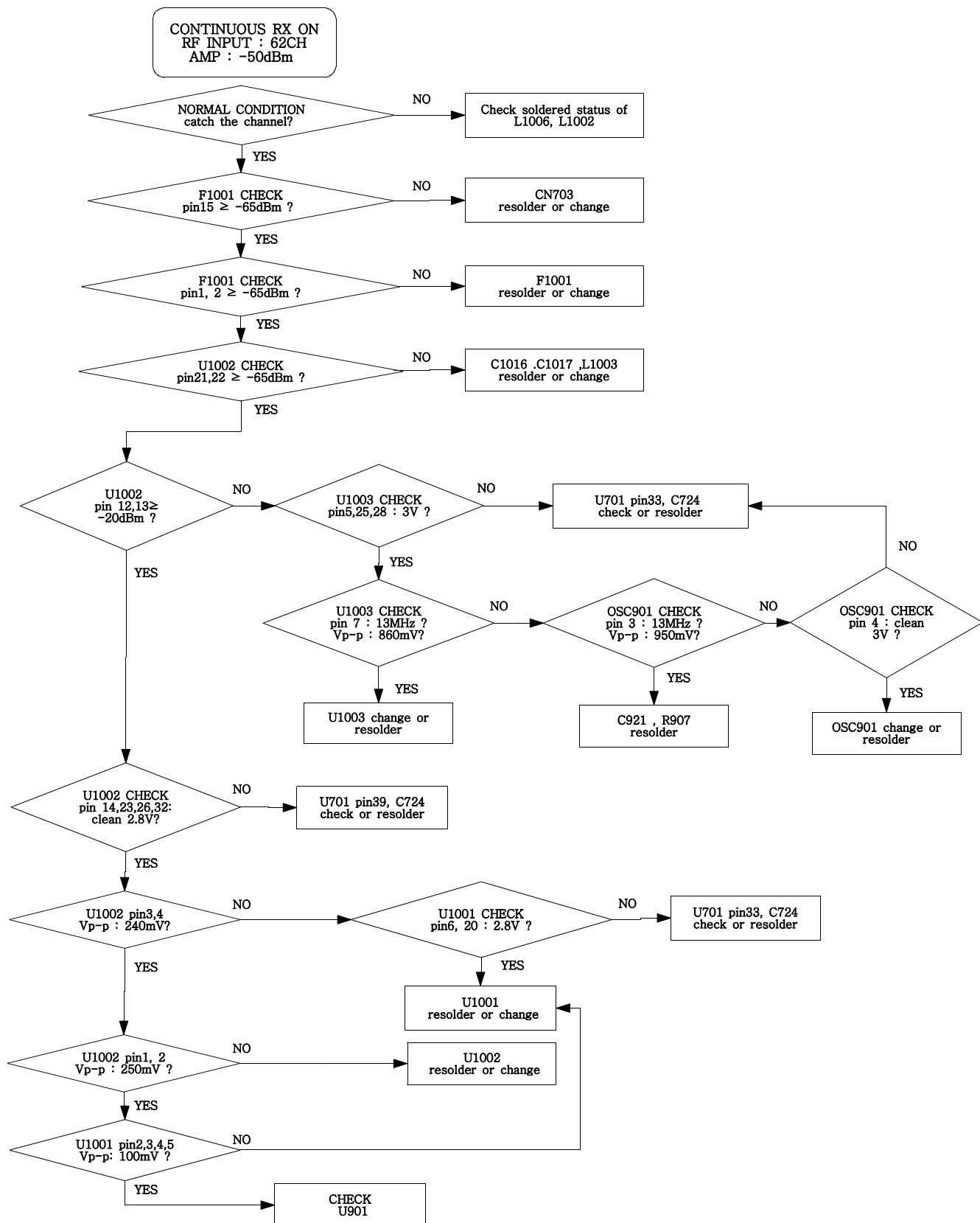


STATUS LED

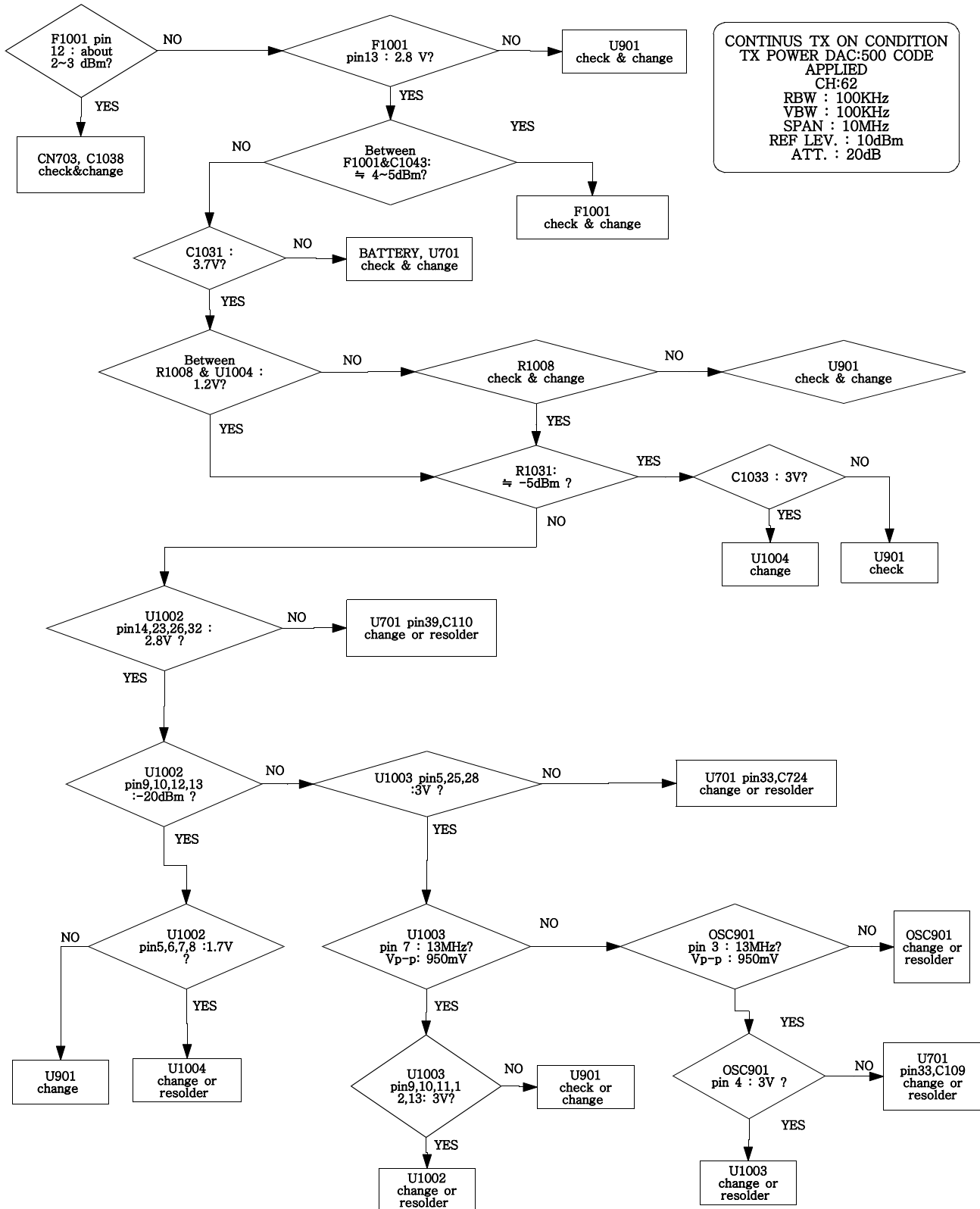
10. Backlight Part



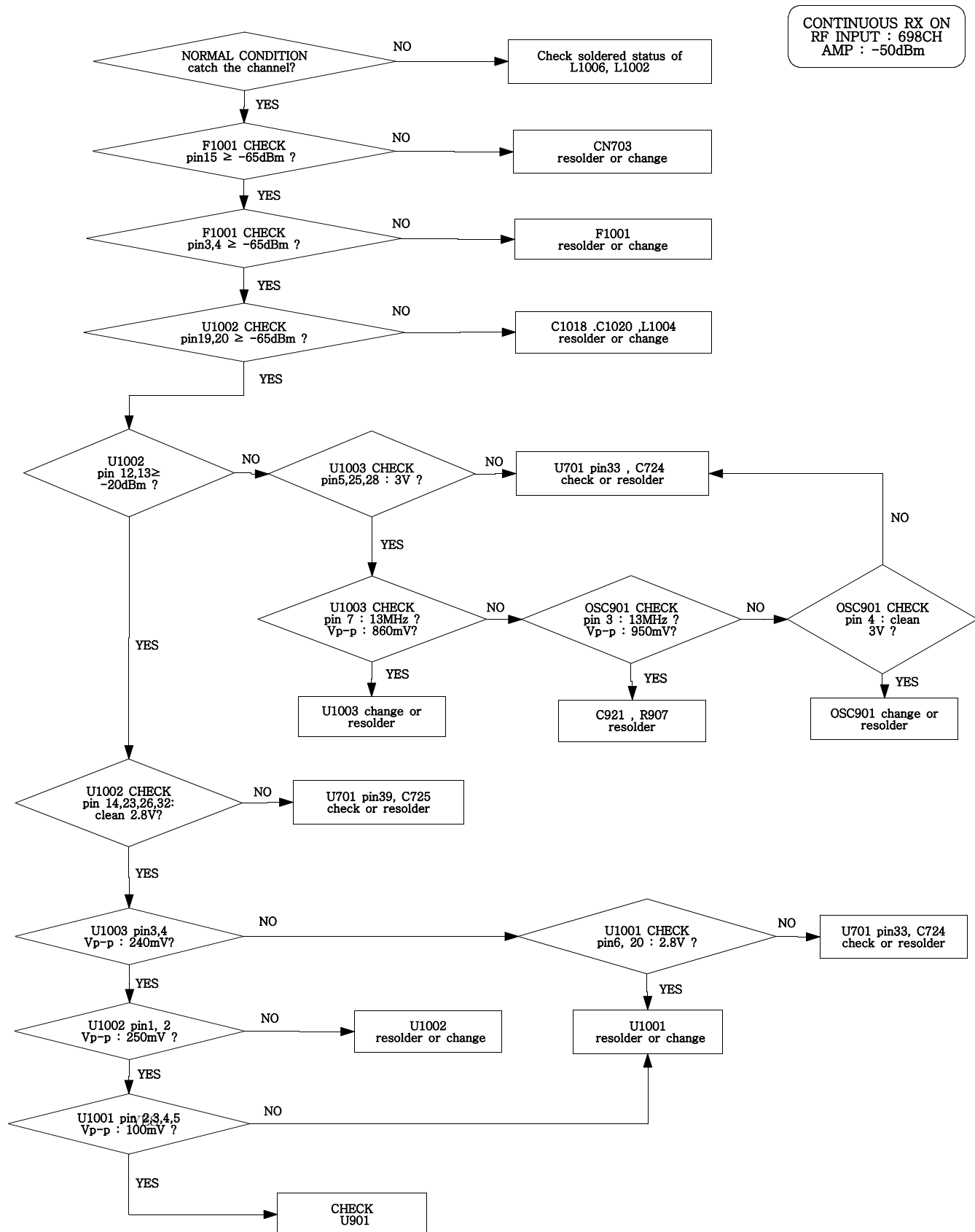
11. EGSM Receiver



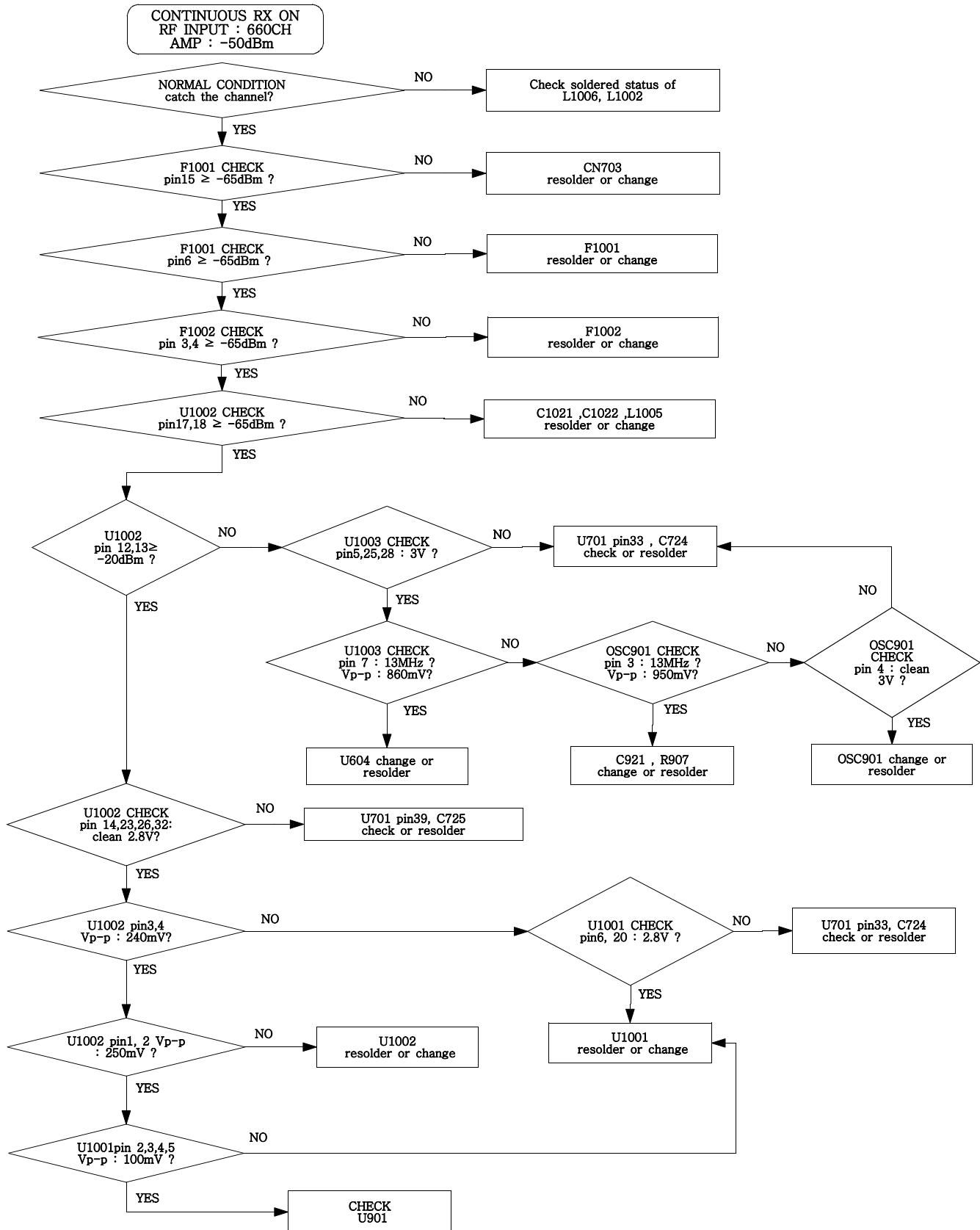
12. EGSM Transmitter



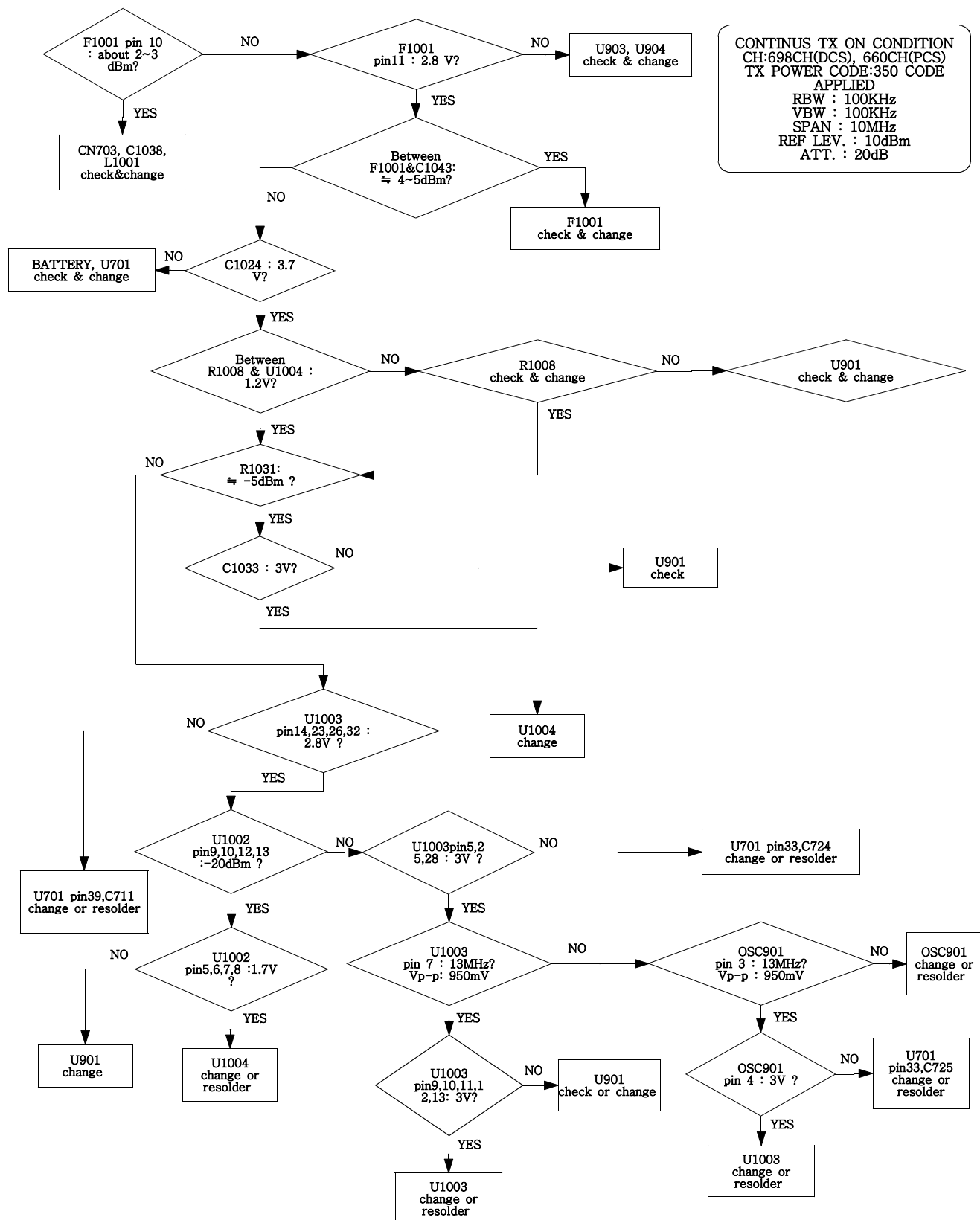
13. DCS Receiver



14. PCS Receiver

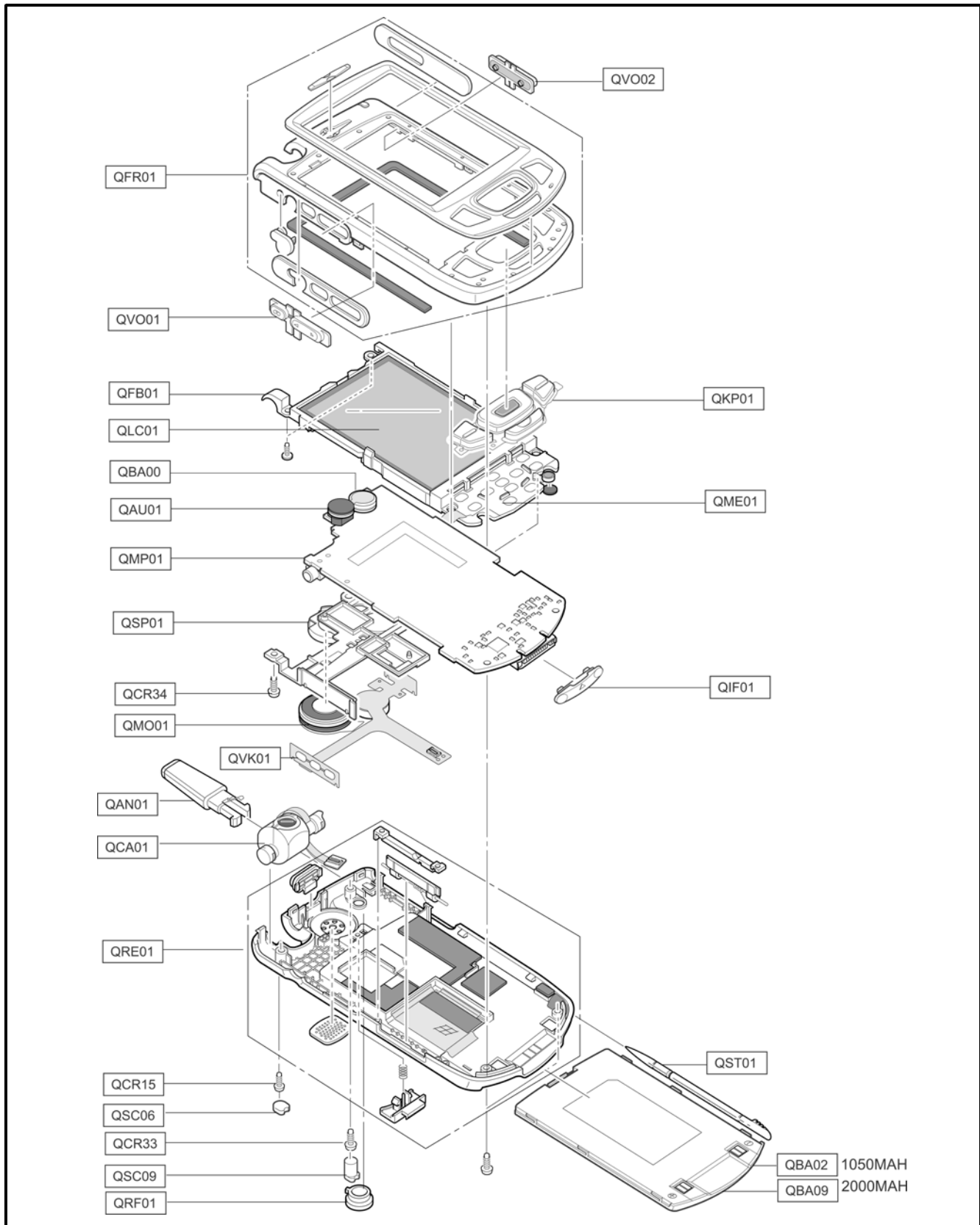


13. DPCS Transmitter



3. SGH-i700 Exploded View and its Parts list

1. Cellular phone Exploded View



2. Cellular phone Parts list

Location NO.		Description	SEC CODE	Remark
QFR01		FRONT COVER	GH75-03084A	
QVO02		POWER TRANS KEY	GH75-03083A	
QVO01		VOICE VOLKEY	GH75-03082A	
QFB01		LCD BRACKET	GH75-04279A	
QLC01		LCD	GH07-00455A	
QBA00		BATTERY	4302-001135	
QAU01		AUDIO RECEIVER	3009-001042	
QMP01		MAIN PBA	GH92-01523A	
QKP01		KEYPAD	GH75-03085A	
QME01		UNIT KEYPAD	GH59-00793A	
QMO01		MOTOR	GH31-00056A	
QCR34		SCREW	6001-001764	
QSP01		SPEAKER	3001-001425	
QAN01		ANTENNA	GH42-00311A	
QVK01		UNIT SIDE KEY	GH59-00794A	
QCA01		CAMERA	GH59-00792A	
QRE01		REAR COVER	GH75-03086A	
QCR15		SCREW	6001-001673	
QSC06		SCREW COVER L	GH72-12386A	
QSC09		SCREW COVER R	GH72-12389A	
QRF01		MOBILE CAP	GH72-14629A	
QIF01		IF COVER	GH72-15073A	
QCR33		SCREW	6001-001860	
QST01		STYLUS PEN ASSY	GH75-04100A	
QBA02		BATTERY 1050MAH	GH43-00964A	
QBA09		BATTERY 2000MAH	GH43-00965A	

3. Test Jig

[GH80-02298A]



3-1. RF Test Cable
(GH39-00090A)



3-2. Test Cable
(GH39-00237A)



3-3. Serial Cable



3-4. Power Supply Cable



3-5. Data Cable
(GH39-00186A)



3-6. Travel Charger
(GH44-00558A)



3-7. USB cable



3-8. JTAG cable



4. SGH-i700 MAIN Electrical Parts List

SEC Code	Design LOC
GH92-01523A	
GH41-00458A	
4302-001135	
GH68-02026A	
GH71-01052A	ANT1001
2203-002677	C1001
2203-001405	C1003
2203-000995	C1005
2203-000812	C1006
2203-001405	C1008
2203-000233	C1009
2203-005061	C101
2203-001405	C1010
2203-000233	C1012
2203-001405	C1013
2203-005288	C1016
2203-005288	C1017
2203-001385	C1018
2203-005061	C102
2203-001385	C1020
2203-005234	C1021
2203-005234	C1022
2404-001239	C1024
2203-000812	C1028
2203-005061	C103
2203-000812	C1030
2203-000812	C1031
2203-000438	C1033
2203-000995	C1038
2203-005061	C104
2203-000233	C1040
2203-000233	C1041
2203-000233	C1042
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2203-000995	C1044
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2203-005061	C166

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2203-000438	C169
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2203-005061	C174
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2404-001239	C302

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2404-001268	C305
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2404-001268	C307
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2203-001259	C423
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2203-000254	C806
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2203-000679	C811
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2203-000386	C923
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3711-004642	CN302
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3711-005225	CN501
3711-005159	CN503
3709-001251	CN601
3711-005225	CN602
3711-005183	CN603
3711-005285	CN604
3710-001732	CN605
3709-001298	CN701

SEC Code	Design LOC
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0404-001016	D302
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0406-001150	D508
0407-000115	D601
3722-002153	EAR401
2909-001191	F1001
2904-001450	F1002
2703-001751	L1001
2703-001751	L1002
2703-002558	L1003
2703-002543	L1004
2703-001708	L1005
2703-001724	L1006
2703-001242	L101
2703-002409	L301
2703-000398	L302
2703-002346	L304
2703-002409	L305
3301-001105	L306
2703-001242	L401
2703-000300	L402
2703-001868	L403
3301-001105	L501
0604-001146	LED601
0601-001654	LED602

SEC Code	Design LOC
0601-001602	LED603
2804-001516	OSC101
2801-003747	OSC102
2801-004225	OSC401
2804-001492	OSC501
2804-001548	OSC502
2801-003747	OSC801
2809-001260	OSC901
0504-000172	Q101
0505-001217	Q102
0504-000168	Q103
0505-001454	Q104
0505-001454	Q105
0501-002202	Q106
0501-000225	Q401
0504-000167	Q402
0504-000167	Q601
0504-000167	Q602
0504-000167	Q603
0505-001217	Q604
0504-000167	Q605
0504-000168	Q704
2007-001288	R1002
2007-007008	R1003
2007-007008	R1004
2007-001288	R1005
2007-007008	R1006
2007-007008	R1007
2007-007107	R1008
2007-000171	R101
2007-001307	R1010
2007-001307	R1011
2007-000159	R102
2007-000162	R103
2007-000148	R105
2007-008263	R106
2007-000171	R112
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0801-000796	U107
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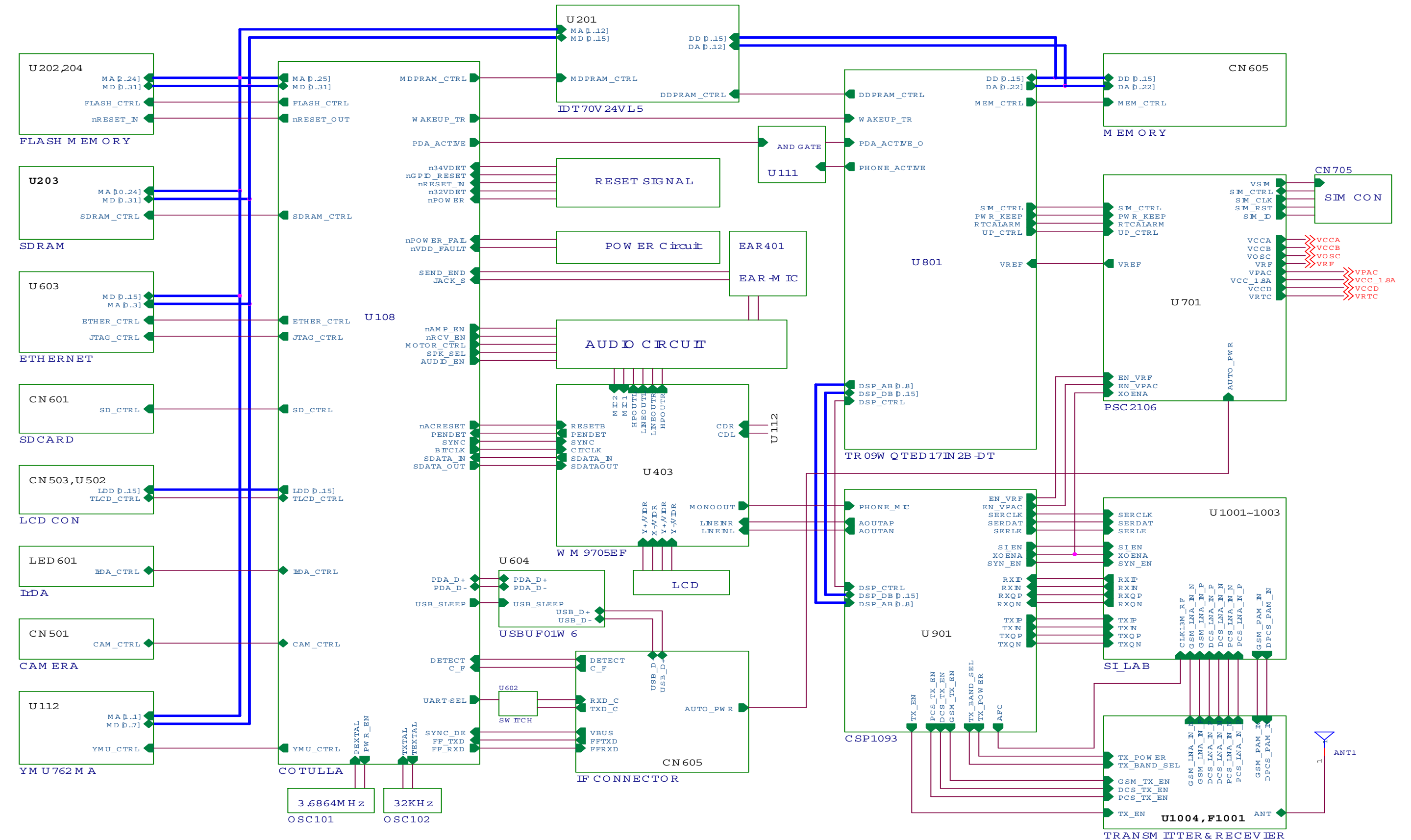
SGH-I700 Electrical Parts List

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1203-003461	U323
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1203-001518	U402
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1201-001900	U404
1201-001725	U405
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1001-001152	U408
1201-001920	U501
1301-001624	U502
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1203-002187	U504
1203-002187	U505
1203-002250	U601
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1203-001518	U603
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1201-001920	U605
1203-003218	U606
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1209-001219	U802
0801-000794	U803

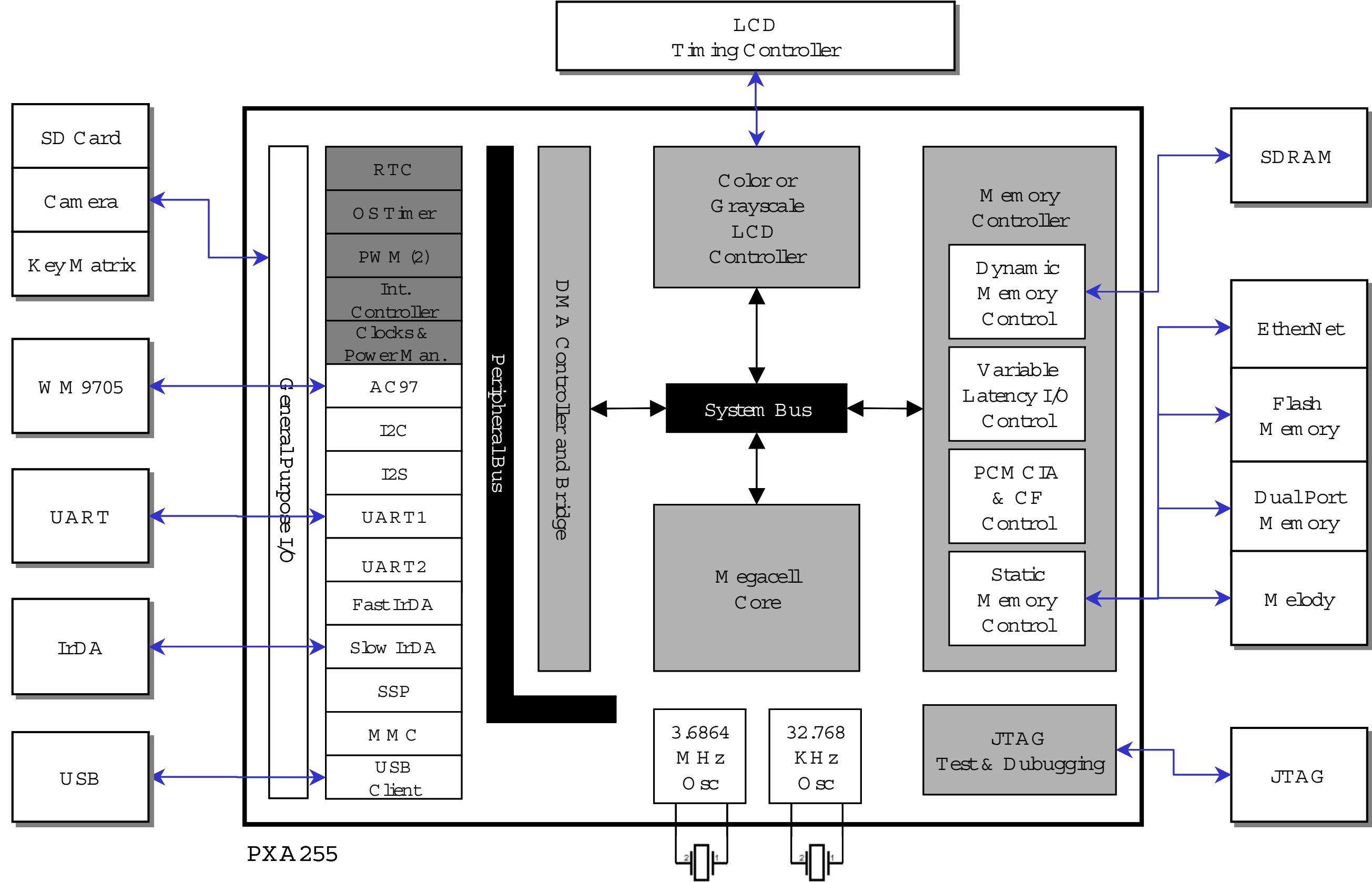
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0406-001150	V607
0406-001150	V608
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0406-001150	ZD402
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0406-001150	ZD410
0406-001150	ZD411
0406-001084	ZD601
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5. SGH-i700 Block Diagrams

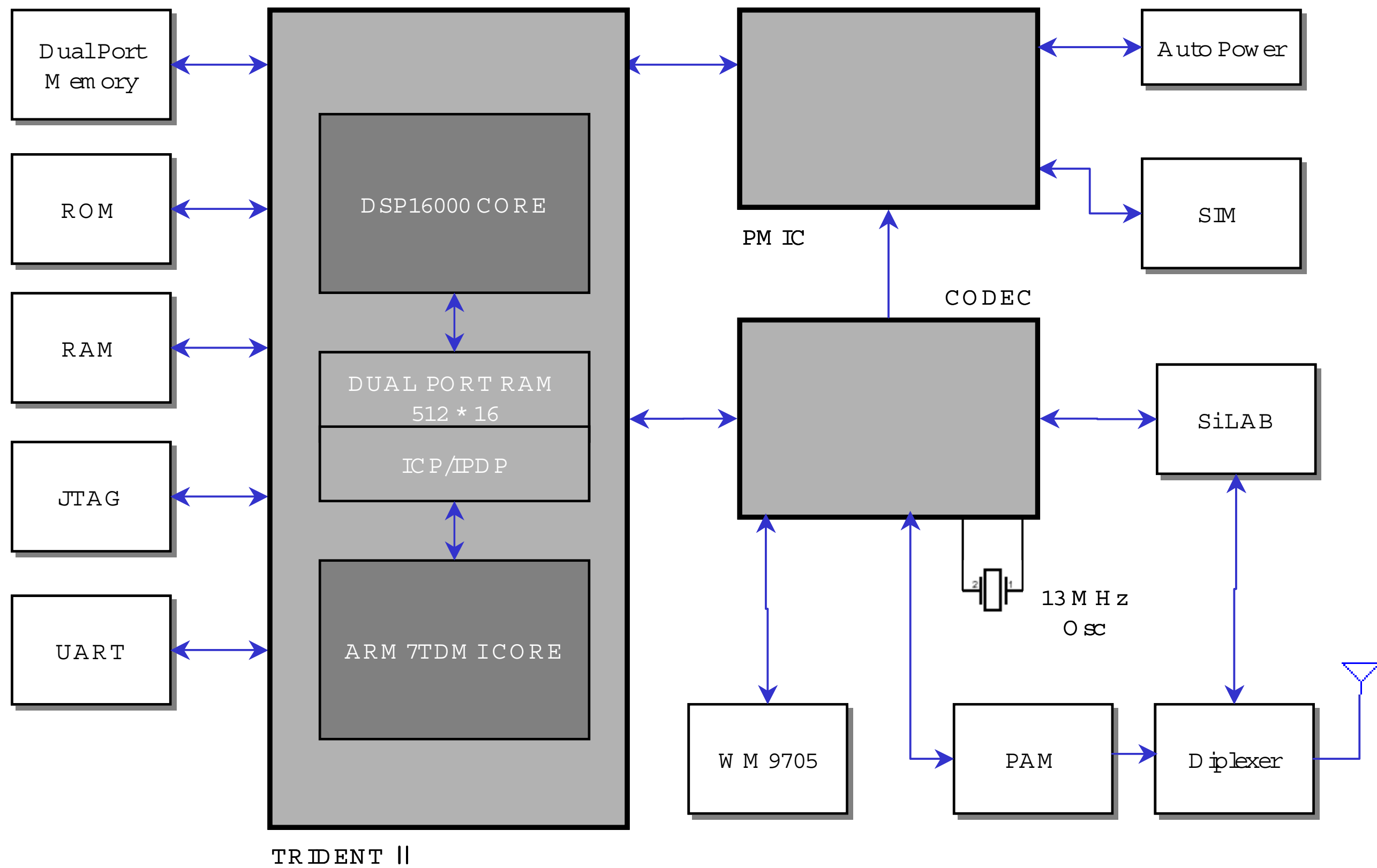
5-1. SGH-i700 Main Block Diagram



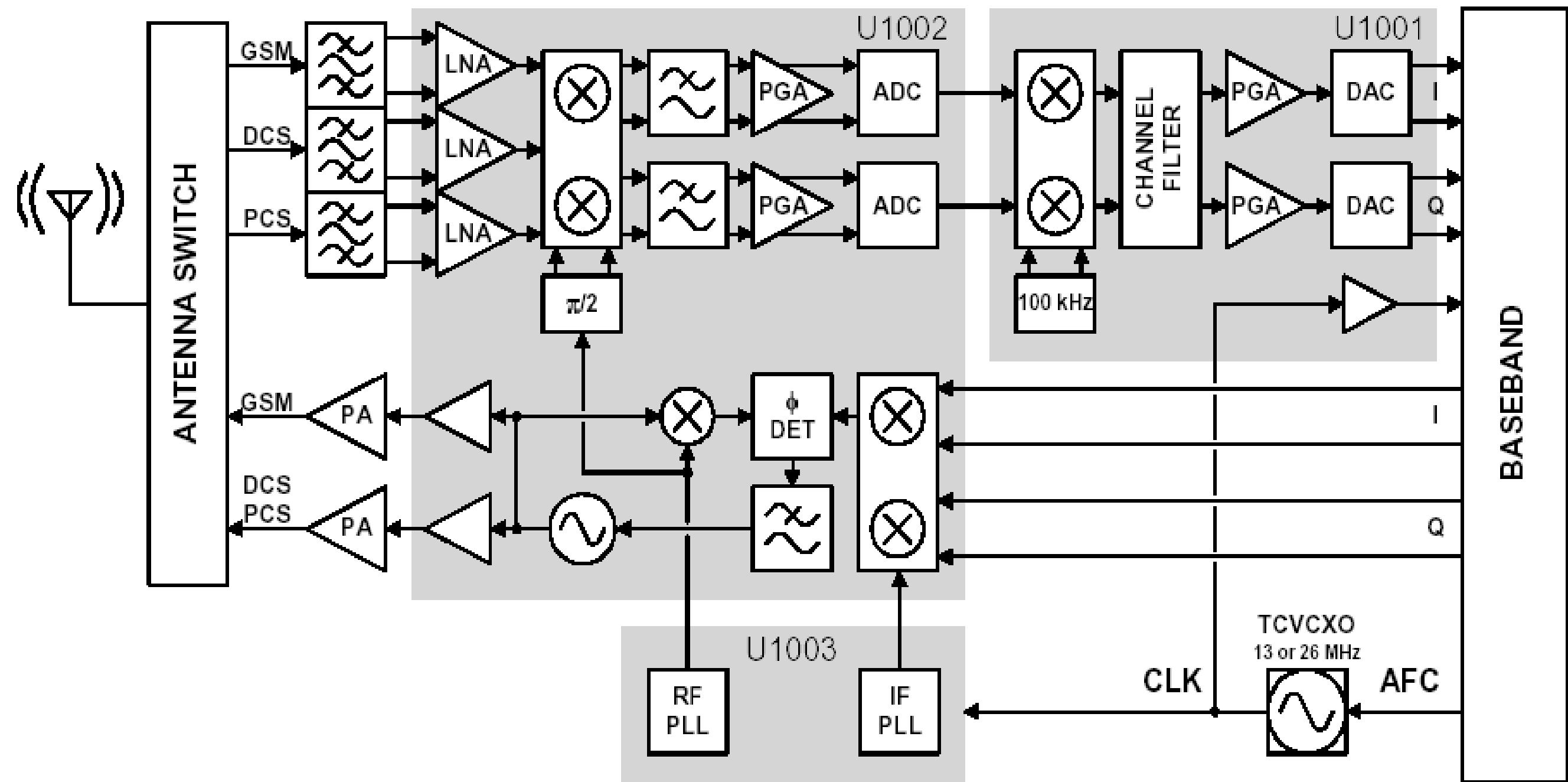
2. SGH-i700 PDA Block Diagram



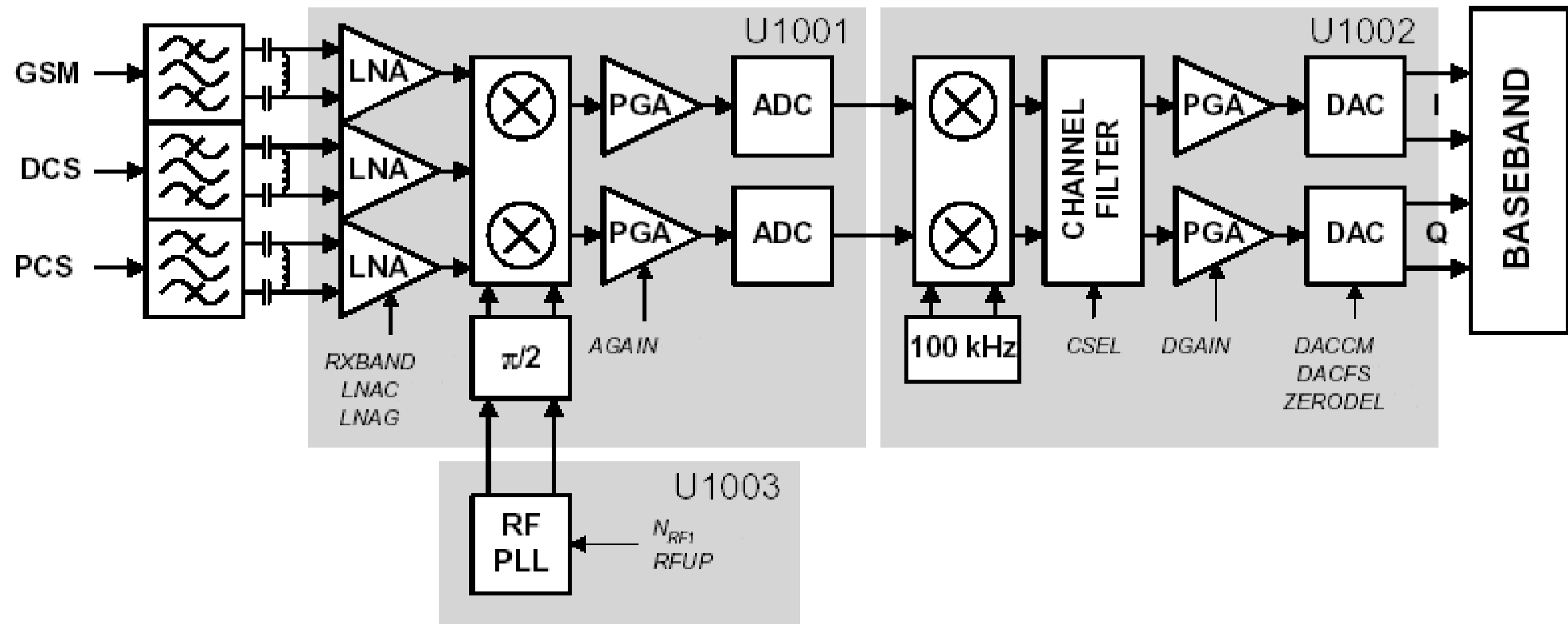
5-3. SGH-i700 Phone Block Diagram



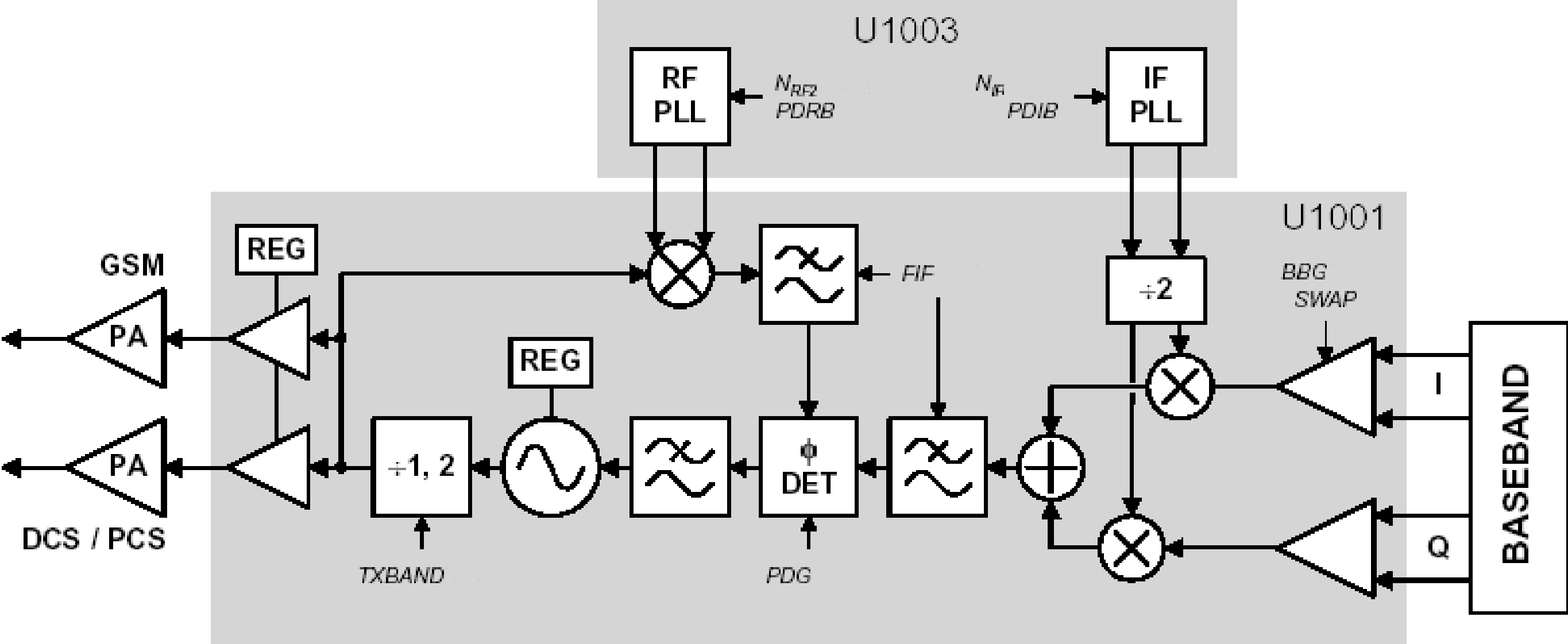
5-4. SGH-i700 RF Transceiver Block Diagram



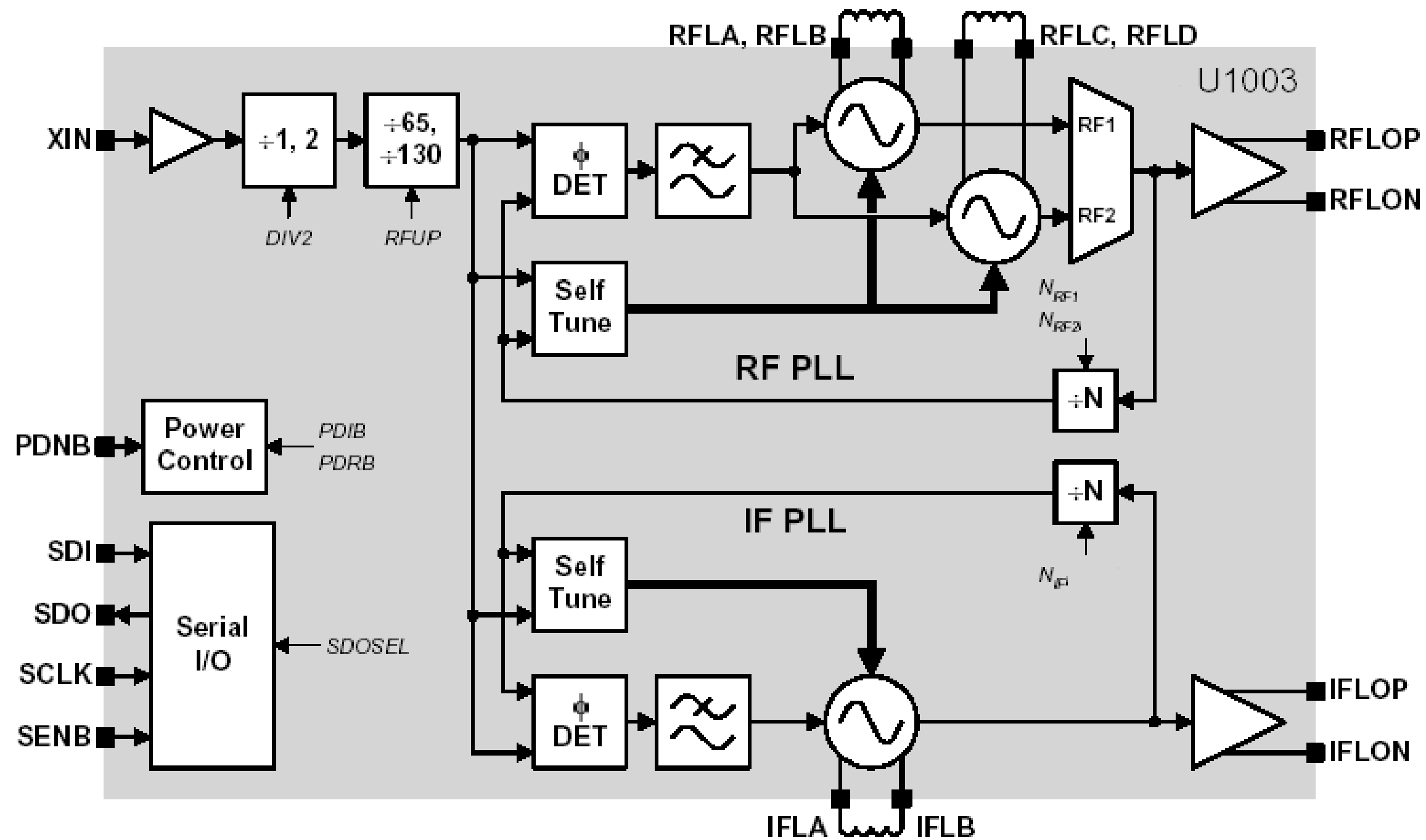
5-5. SGH-i700 RF Receiver Block Diagram



5-6. SGH-i700 RF Transmit Block Diagram



5-7. SGH-i700 RF Synthesizer Block Diagram



1.Main TOP Diagram

