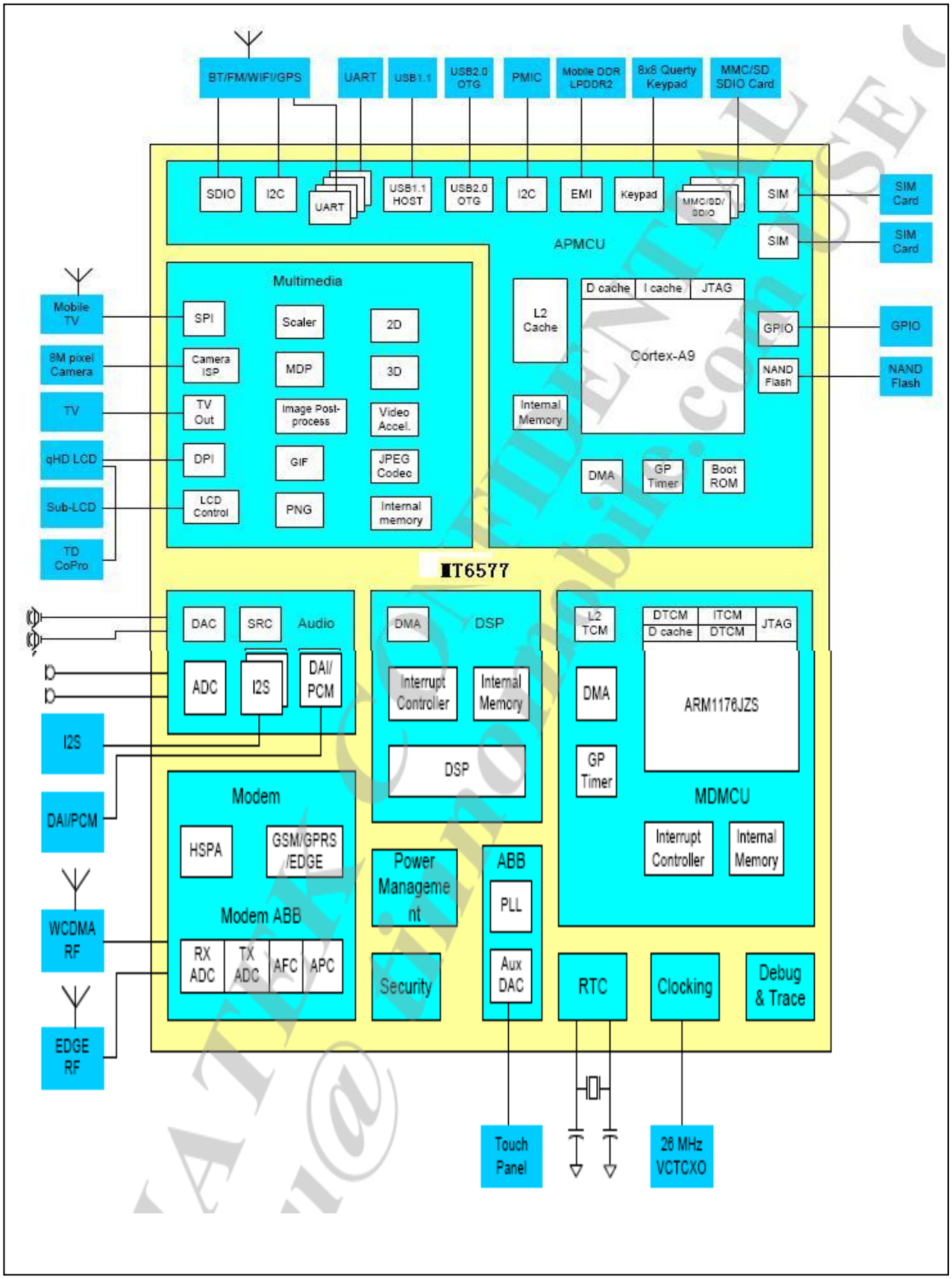
CHAPTER 6、CIRCUIT INSTRUCTION



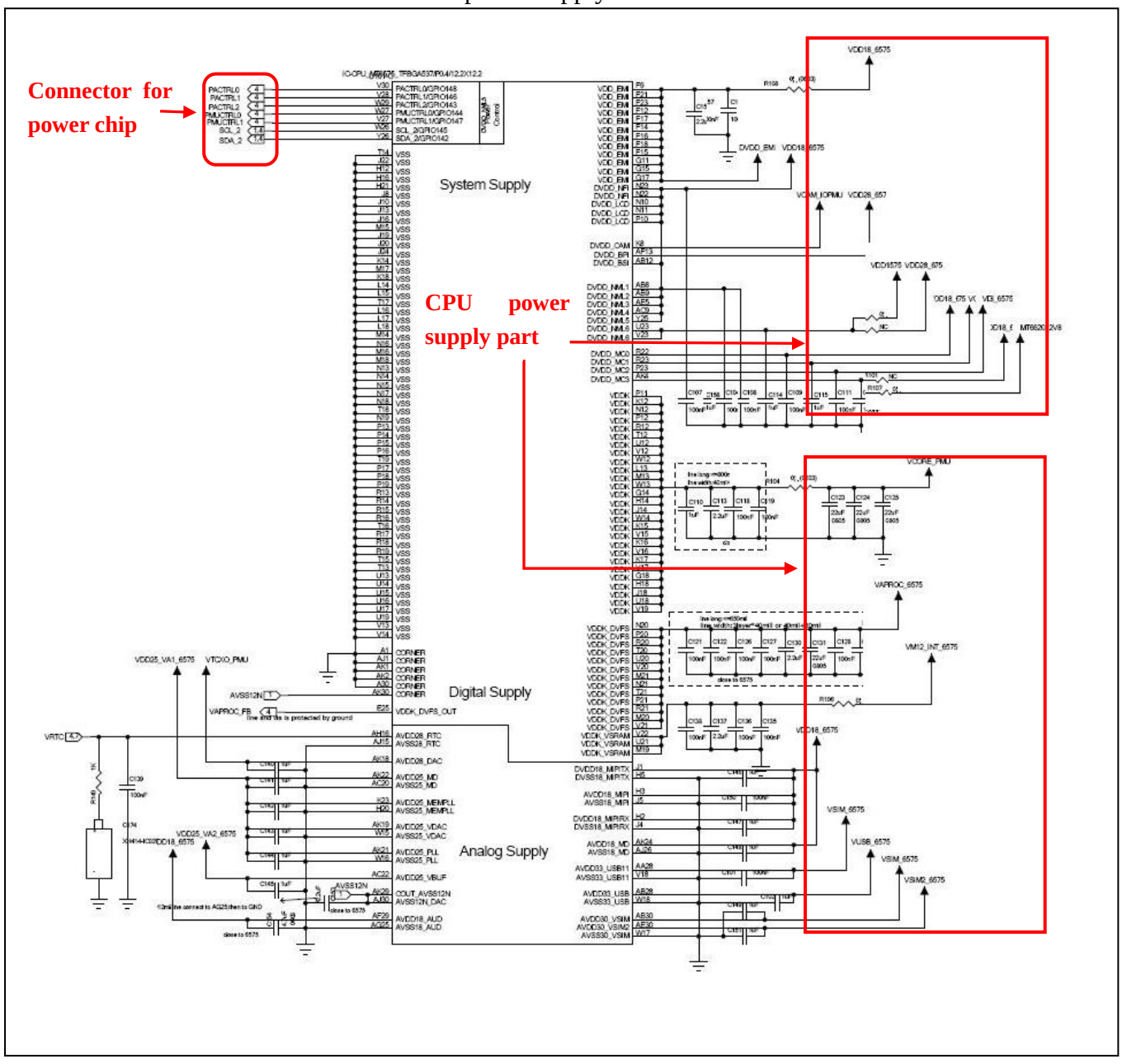
CHAPTER 7、UNIT CIRCUIT PRINCIPLE INTRODUCTION

MT6577 INTRODUCTION

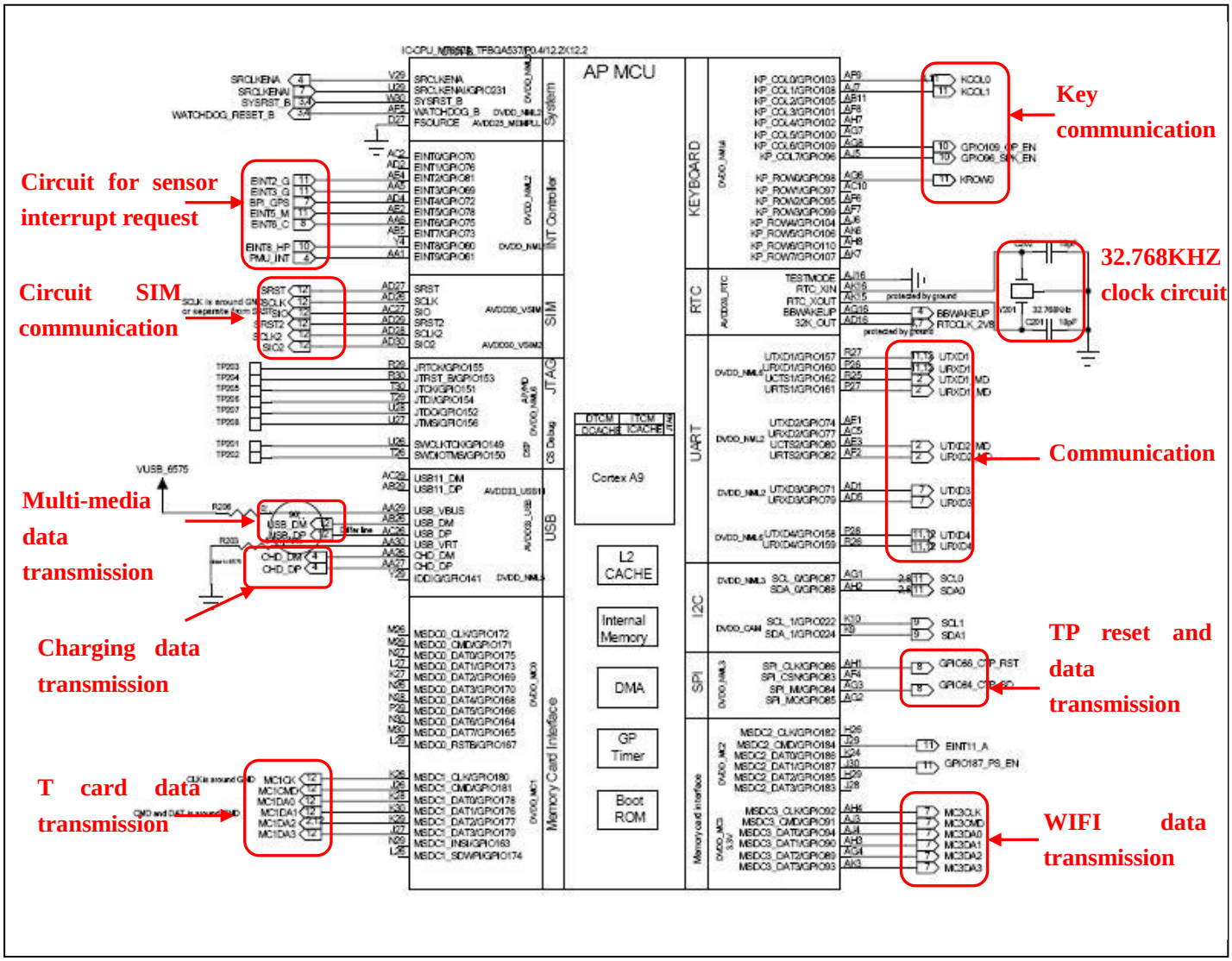
System Overview

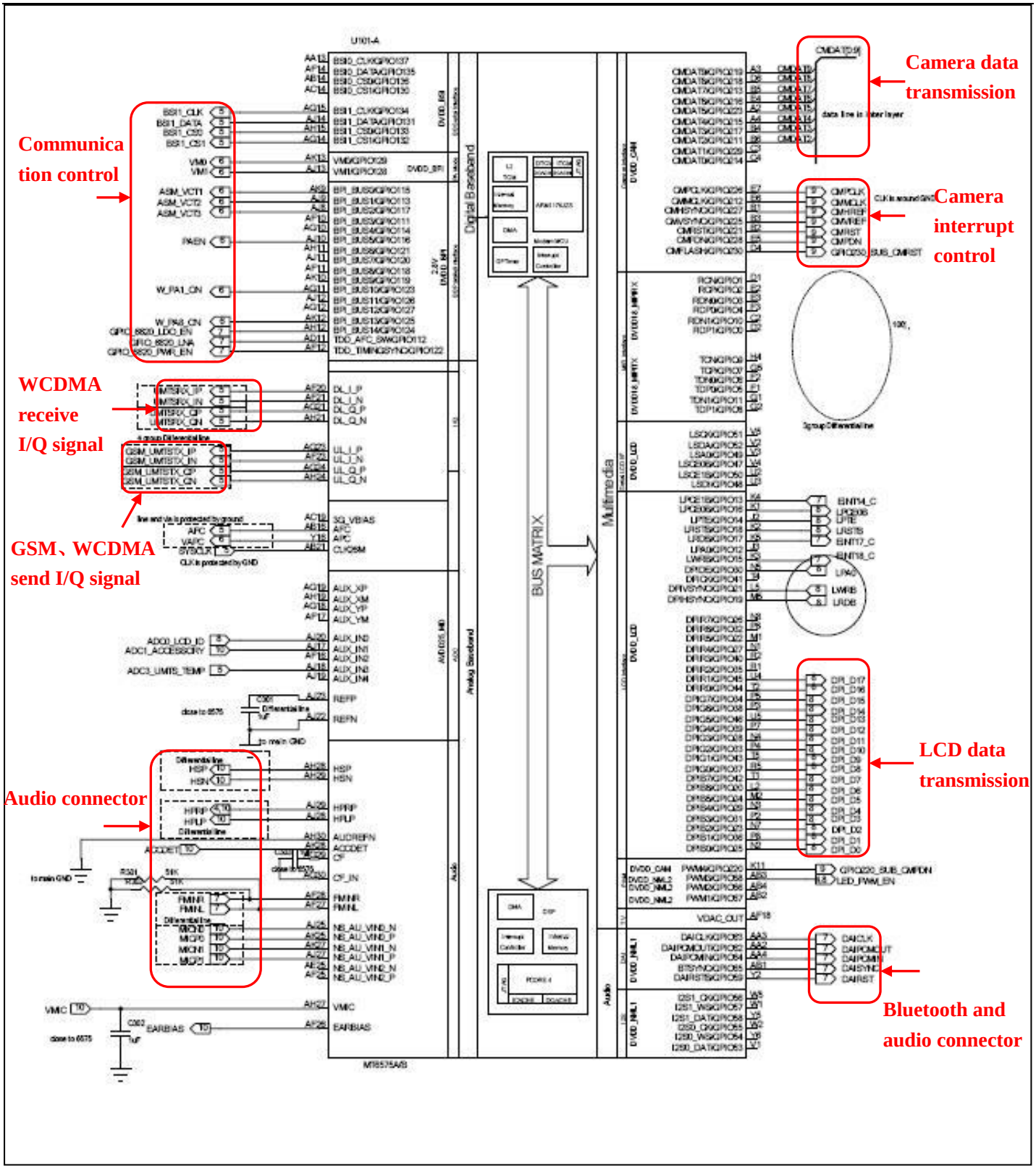
MT6577 is a highly integrated baseband platform incorporating both modem and application.processing subsystems to enable 3G (UMTS)smart phone applications. The chip integrates a 1 GHz Cortex-A9 MCU,an ARM1176 MCU and a powerful DSP processor with multimedia capabilities. The MT6577 interfaces to NAND flash memory,32-bit mobile DDR and LPDDR2 for optimal performance and supports booting from NAND to minimize the overall BOM cost. In addition, an extensive set of interfaces and connectivity peripherals are included to interface to cameras, touch-screen displays , MMC/SD cards and extemal Bluetooth, WILAN and GPS modules.

7.1 Baseband CPU circuit introduction for power supply



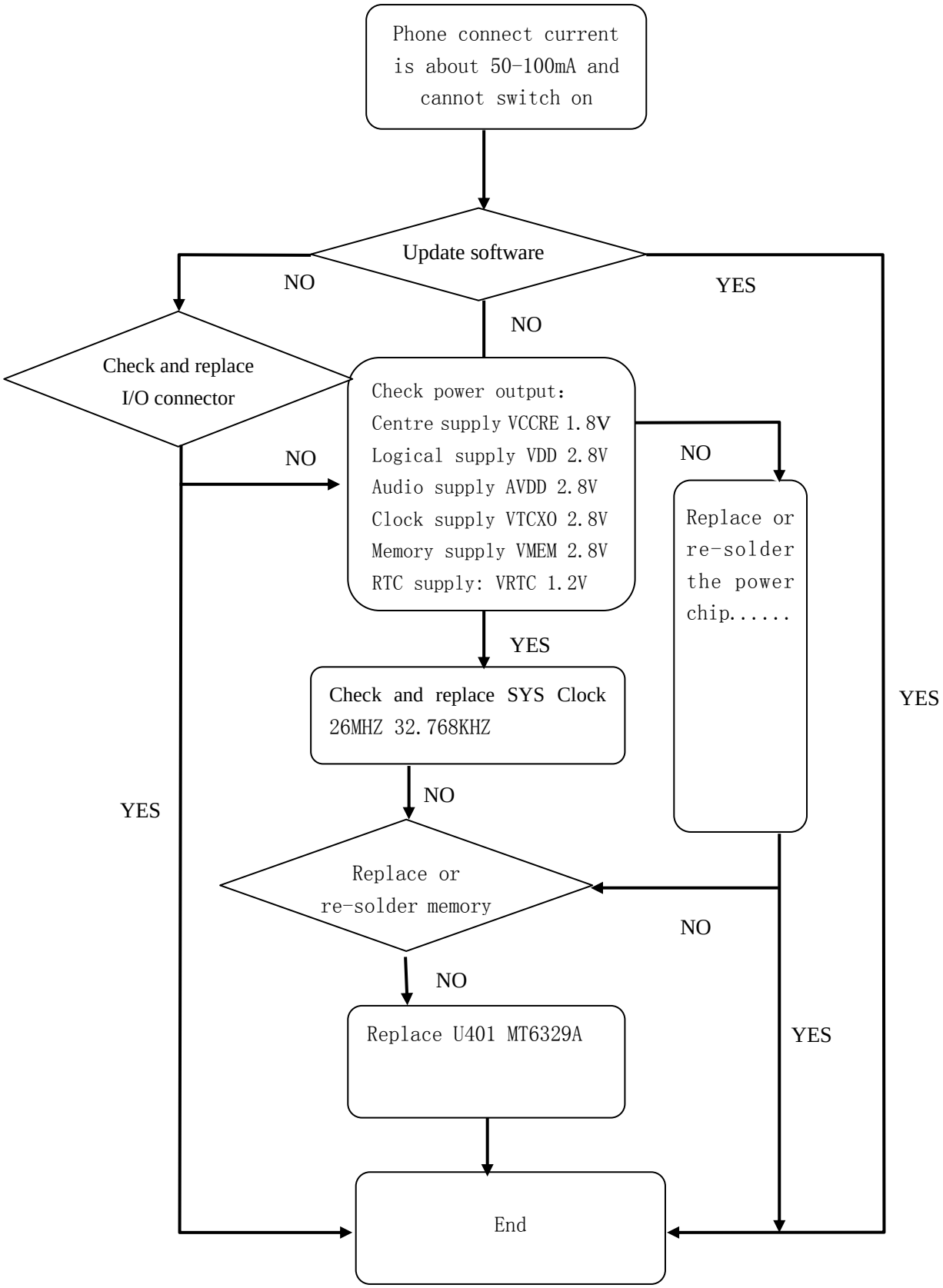
7.2 Introduction for baseband chip CPU part circuit



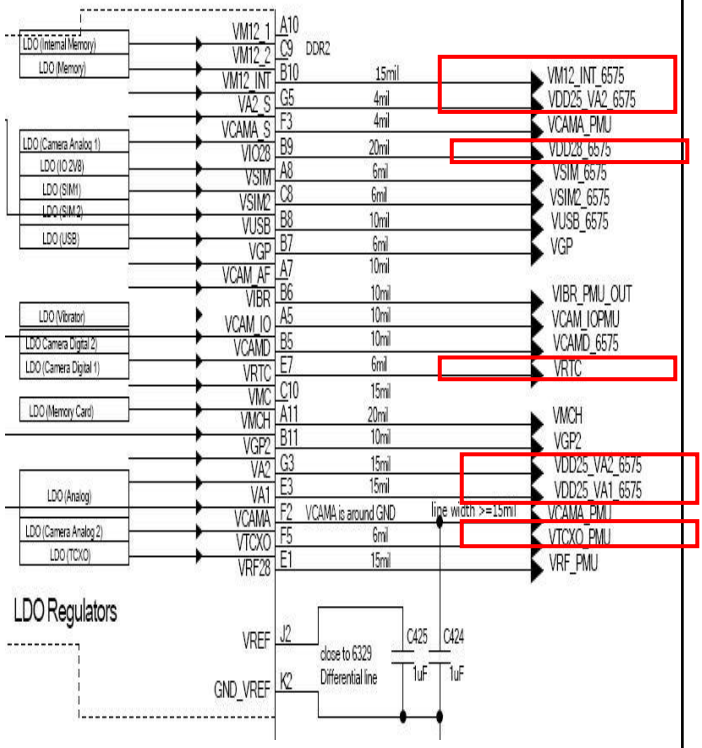

Communication control
WCDMA receive I/Q signal
GSM、WCDMA send I/Q signal
Audio connector
Camera data transmission
Camera interrupt control
LCD data transmission
Bluetooth and audio connector
U101-A
Digital Baseband
Analog Baseband
Multimedia
BUS MATRIX
Audio
MT6575AB

CHAPTER8、TROUBLE SHOOTING GUIDE

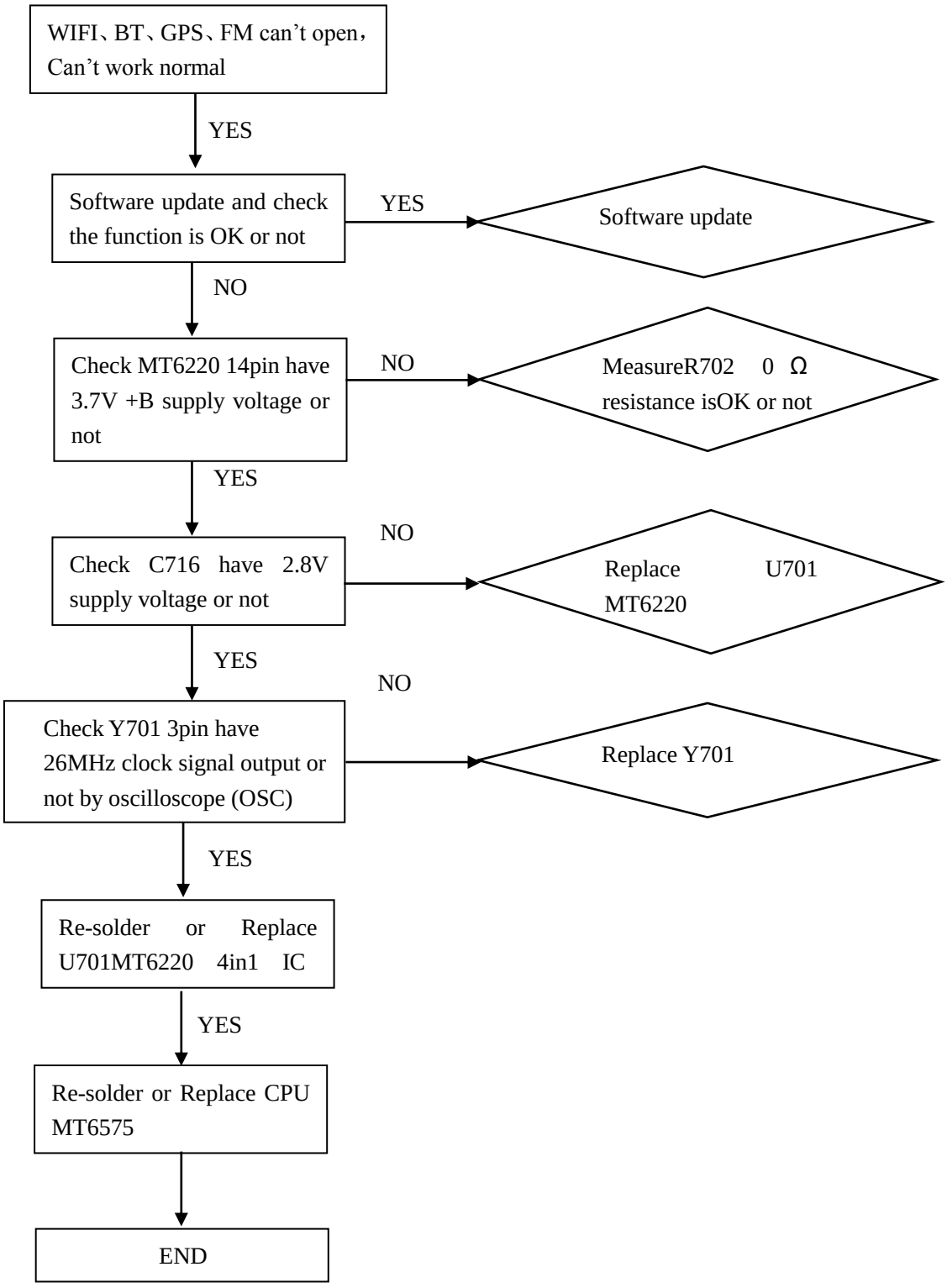
8.1 Cannot switch on



	Symbol	Vout (V)	Iout (mA)
Buck	VPA	0.9 ~ 3.4 (100mV/step)	800
	VPROC	0.75 ~ 1.3 (25mV/step)	1500
	VRF18	1.825	250
	VCORE	0.75 ~ 1.3 (25mV/step)	1000
	VIO18	1.8	1000
Analog LDO	VRF28	2.85	200
	VTCXO	2.8	40
	VCAMA	1.5/1.8/2.5/2.8	200
Digital LDO	VA1	1.8/2.0/2.1/2.5	200
	VA2	2.5/2.8	100
	VM12_1	1.2	300
	VM12_2	1.2	300
	VM12_INT	0.75 ~ 1.3 (25mV/step)	100
	VIO28	2.8	100
	VSIM1	1.8/3.0	100
	VSIM2	1.3/1.5/1.8/2.5/2.8/3.0/3.3	100
	VUSB	3.3	100
	VCAMD	1.3/1.5/1.8/2.5/2.8/3.0/3.3	300
	VCAM_IO	1.3/1.5/1.8/2.5/2.8/3.0/3.3	100
	VCAM_AF	1.3/1.5/1.8/2.5/2.8/3.0/3.3	200
	VMC	1.3/1.5/1.8/2.5/2.8/3.0/3.3	200
	VMCH	1.3/1.5/1.8/2.5/2.8/3.0/3.3	400
	VGP	1.3/1.5/1.8/2.5/2.8/3.0/3.3	100
	VGP2	1.3/1.5/1.8/2.5/2.8/3.0/3.3	100
RTC	VRTC	1.8/2.0/2.1/2.8	2



8. 2 4in1 chip MT6220 WIFI、BT、GPS、FM cannot work normally



4in1 chip MT6220

MT6220 is a 4-in-1 wireless communication device which includes

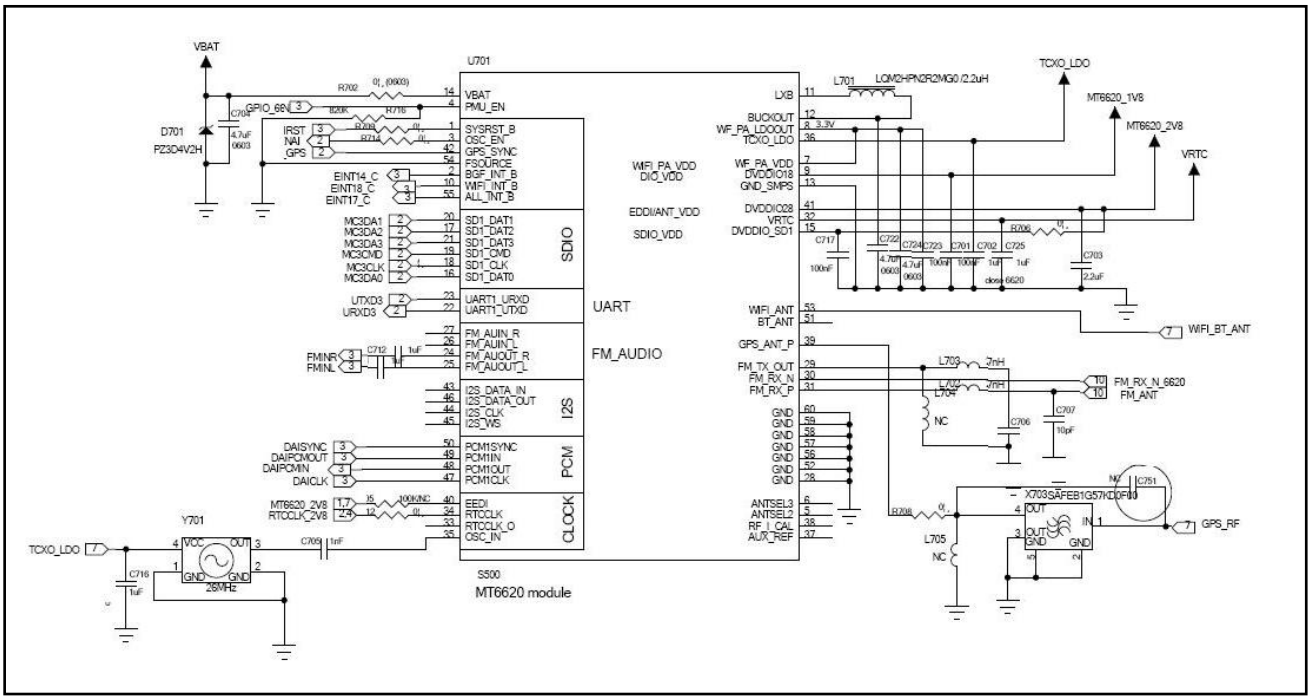
. WLAN

. Bluetooth

. GPS

. FM Transmitter and receiver

With four advanced radio technologies integrated into a single chip, MT6620 provides the best and most convenient Connectivity functions. MT6620 implements advanced and sophisticated Radio antenna for Bluetooth and WLAN,5GHz for WLAN and 1.575GHz for GPS).Enhanced overall quality for simultaneous voice data, and audio/video Transmission on mobile phone and Tablet PC can be achieved. The small size with low power consumption reduces PCB layout area the software package "Symphony" enables all advanced wireless features on Android OS.

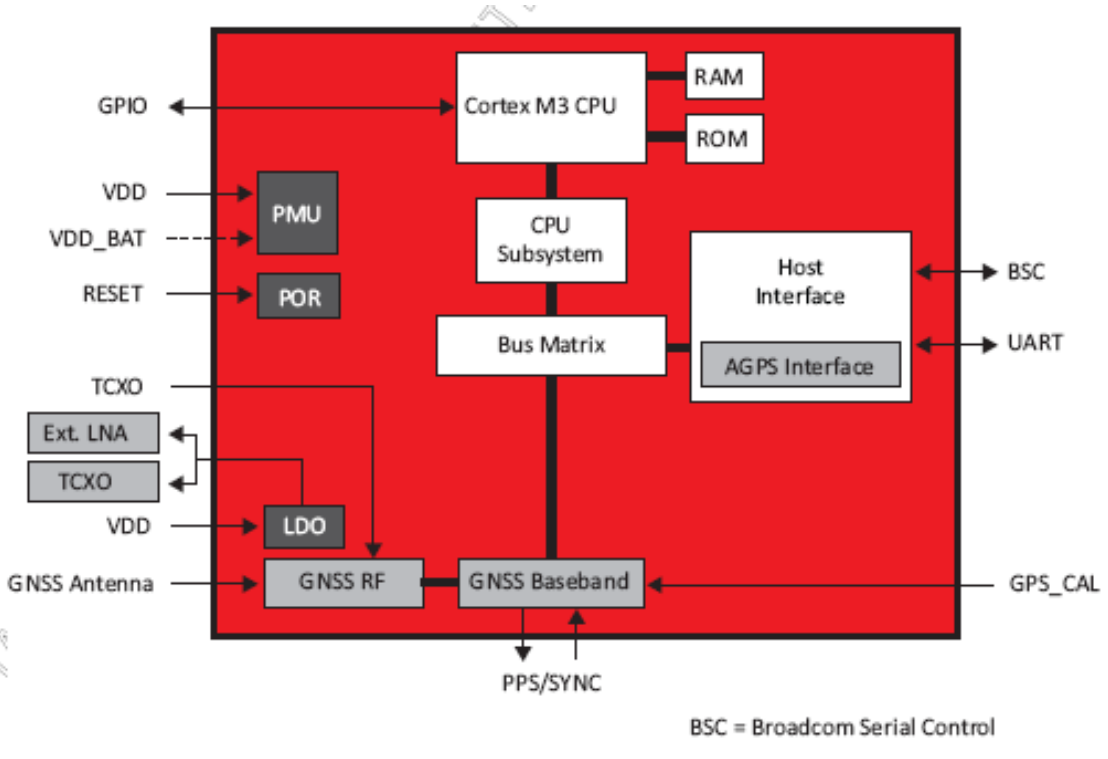


8.3 GPS cannot work normally(BCM4751 chip)

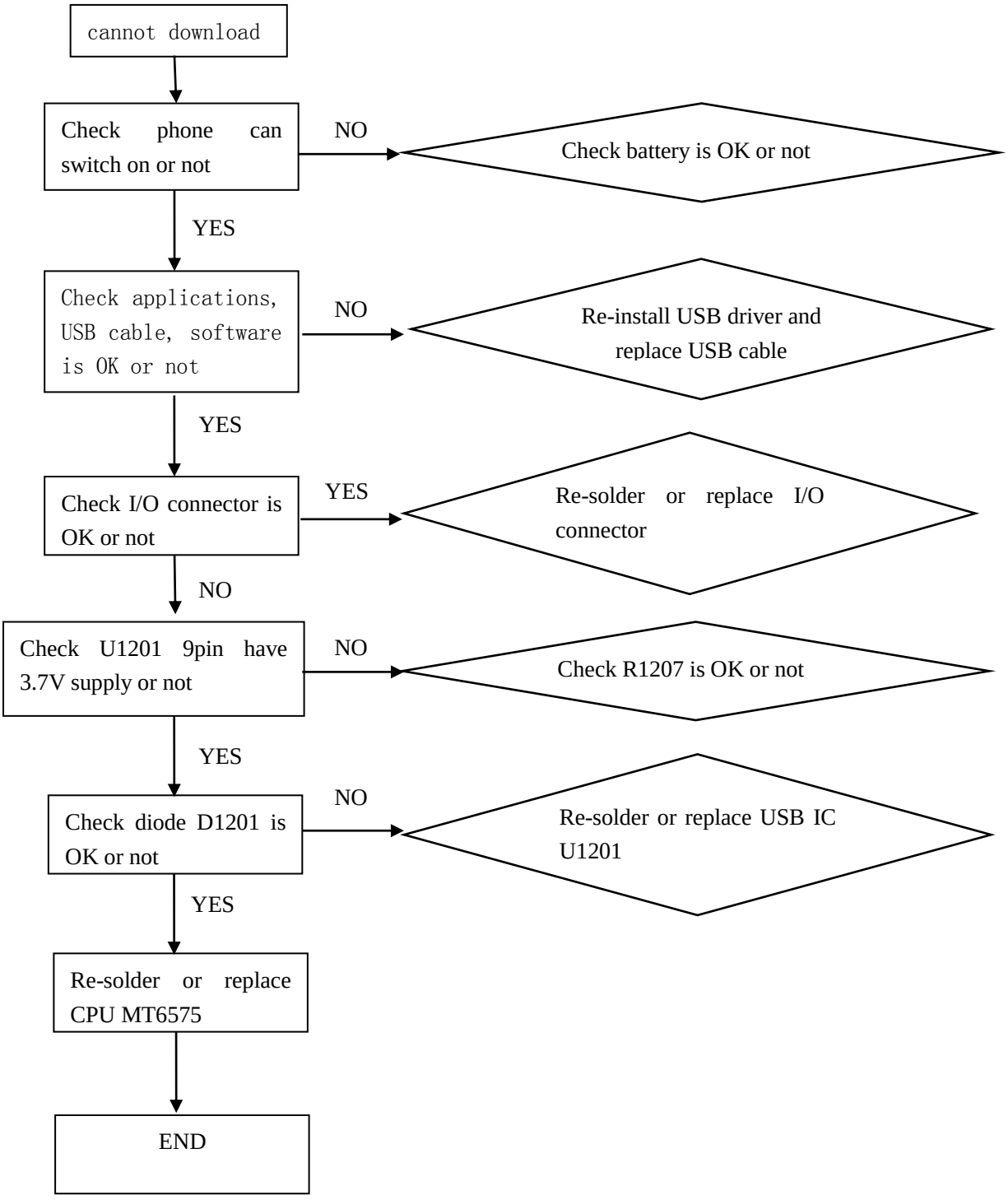
GENERAL DESCRIPTION

The Global Navigation Satellite System （GNSS）core of the BCM47511 uses a host-based integration architecture That splits processing tasks between the GNSS chip and the CPU on the host system. The processing tasks for the GNSS Receiver have been divided such that the BCM47511 does most of the computationally intensive operations while leaving the host software to implement the final calculations that may be affected by carrier and platform specific requirements. Demands on the host CPU are minimal , and no real time requirements are imposed. The Broadcom GPS Location Library software API gives designers complete access to the advanced capabilities of the BCM47511.The software is compatible with existing Broadcom GPS solutions, the BCM4750 and BCM4751.

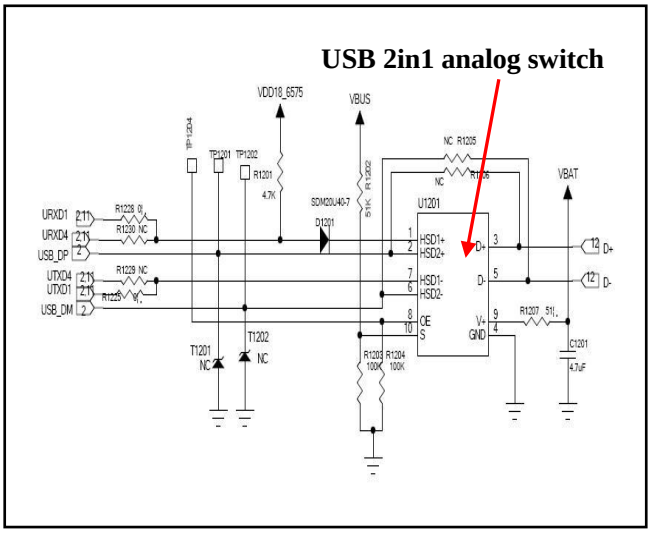
The BCM47511 GPS receiver is available in a space-saving 0.4 mm ball pitch,2.9*3.1mm WLBGA package for either Chip-on-board or module applications. A 0.65mm ball pitch FBGA package is also available.

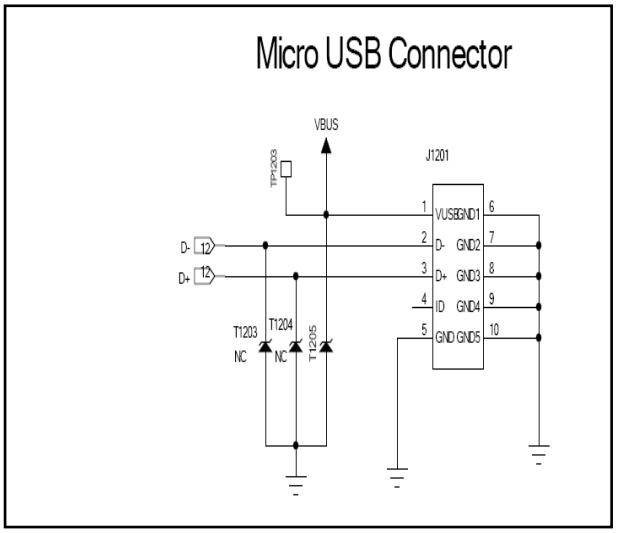


8.3 cannot download

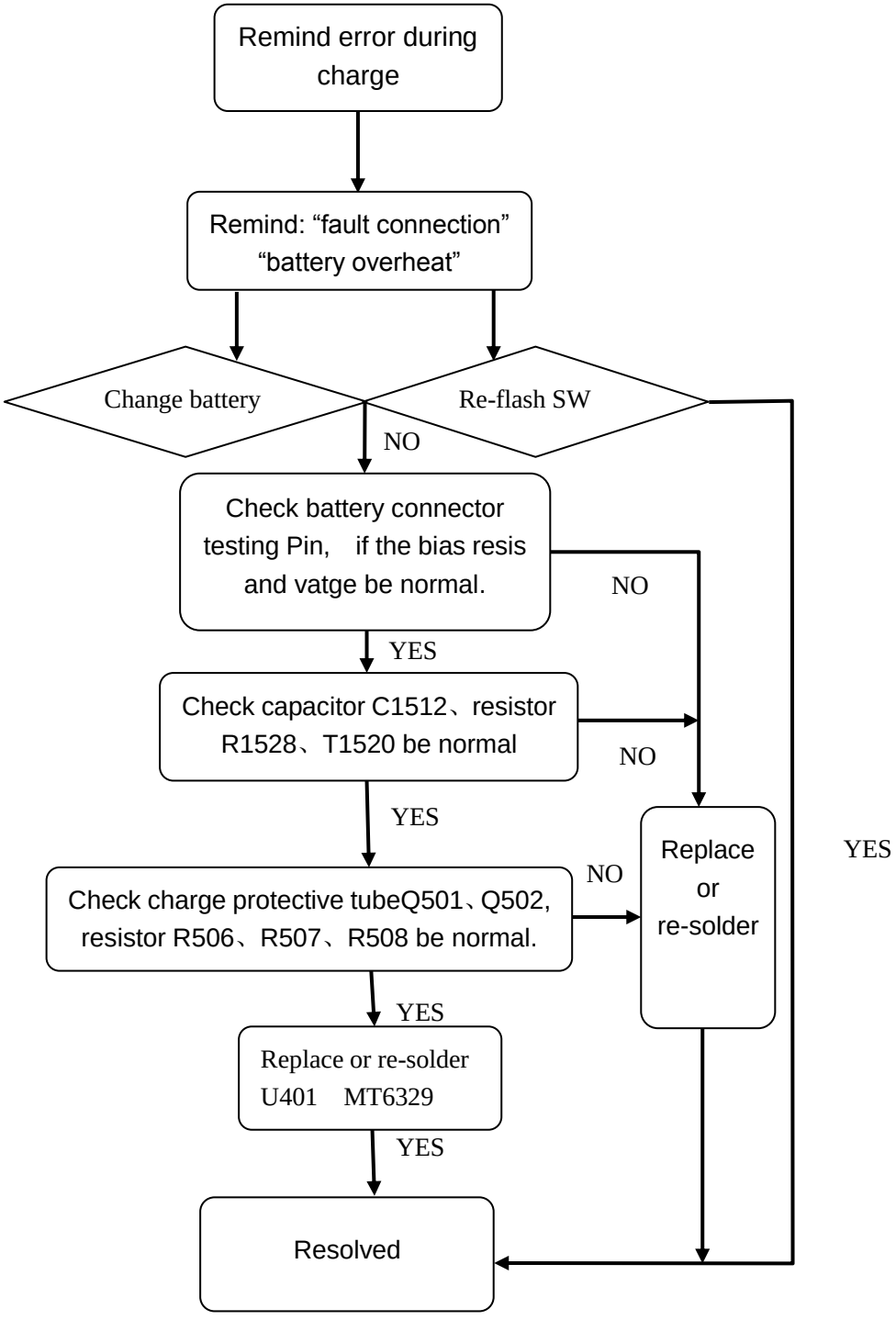


Cannot download

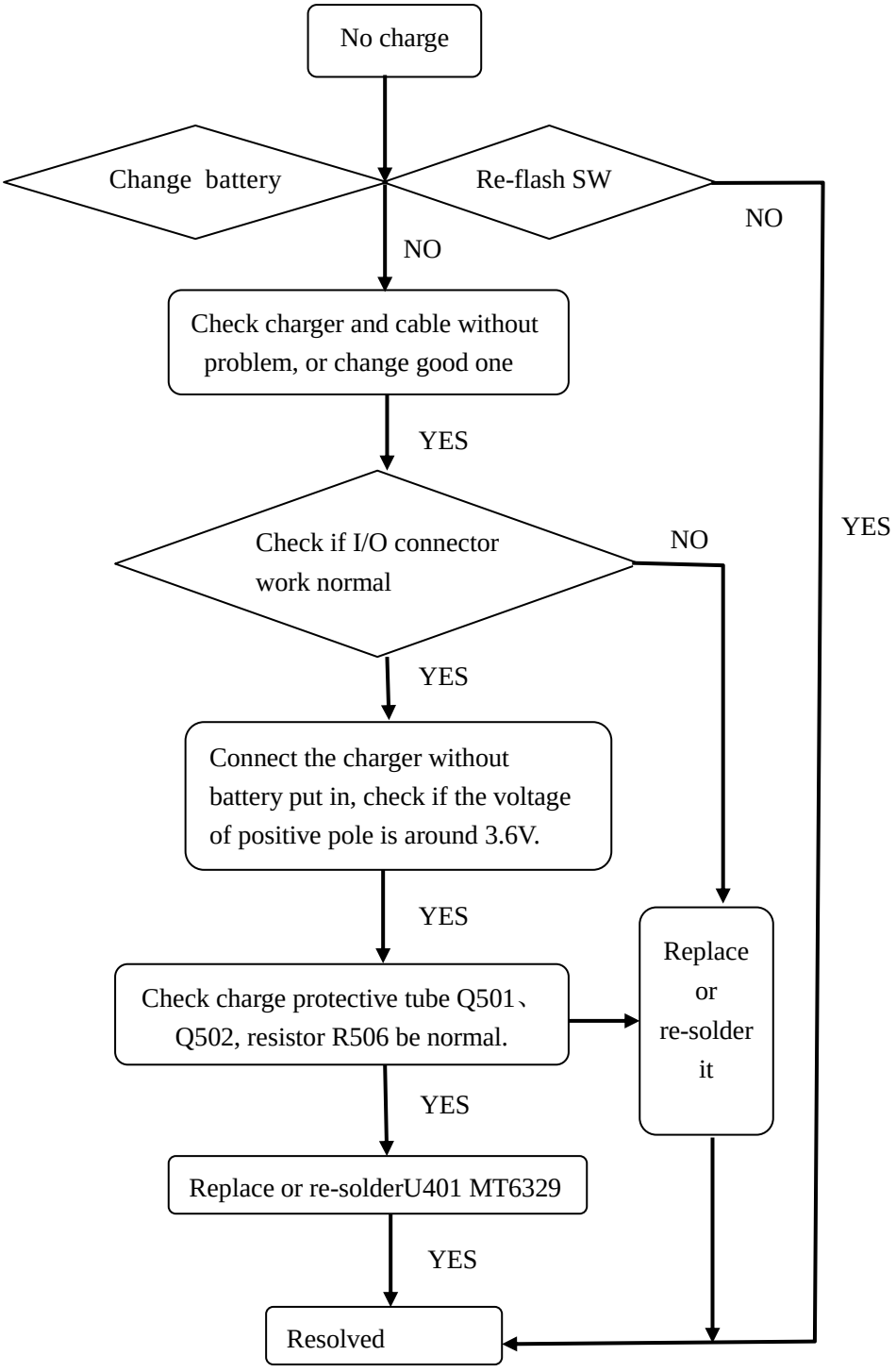




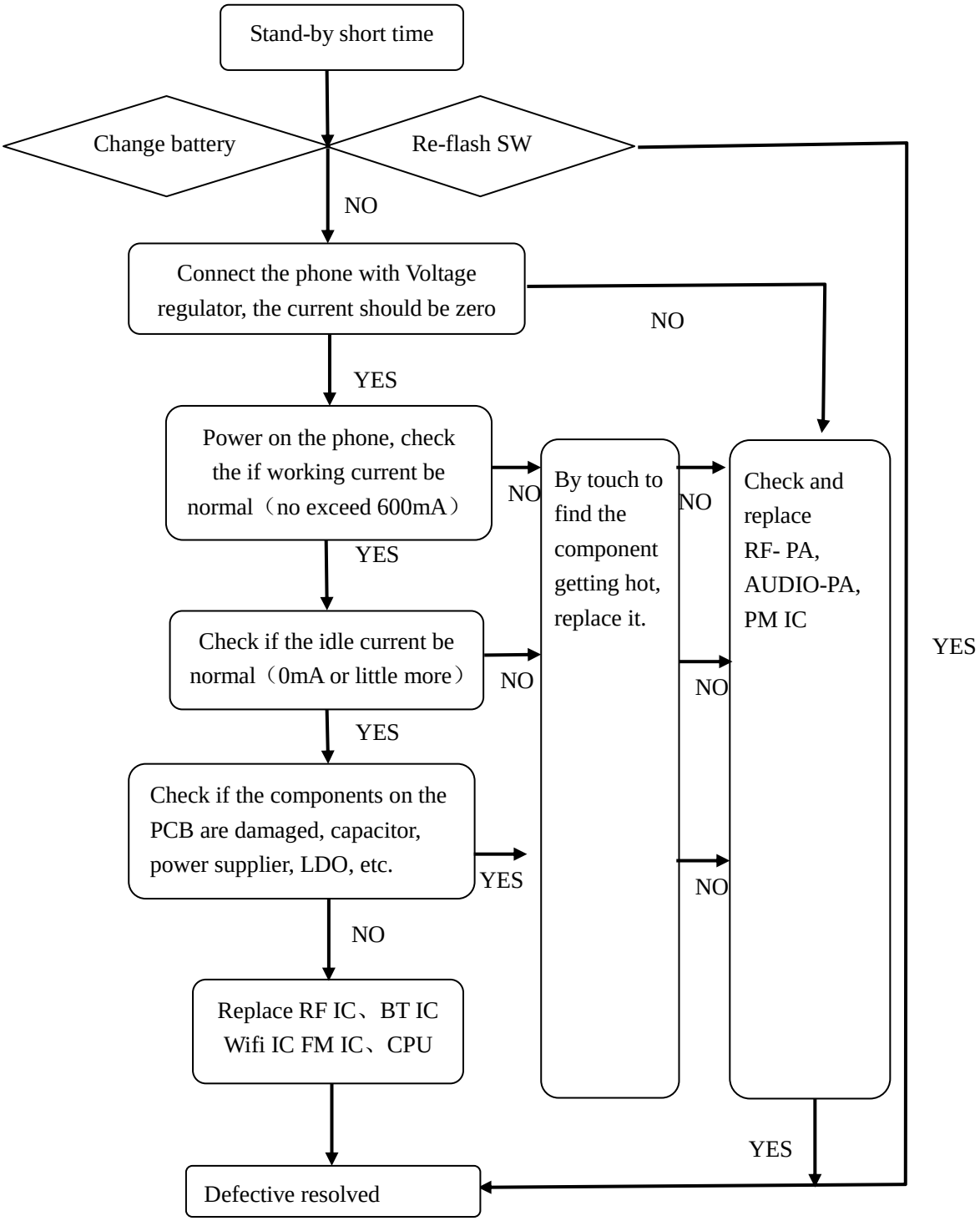
Does not charge – remind error charge



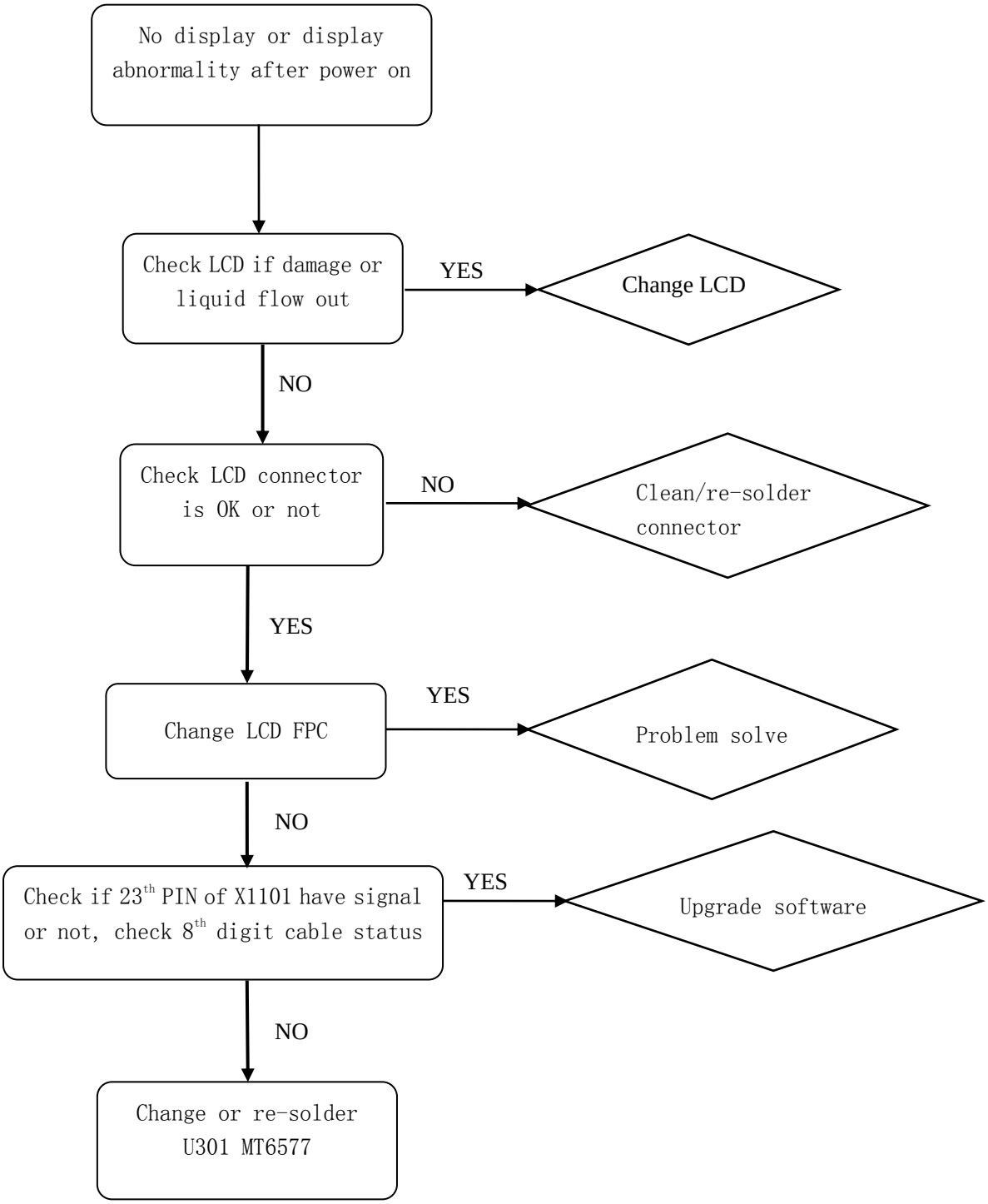
Does not charge – no charge in



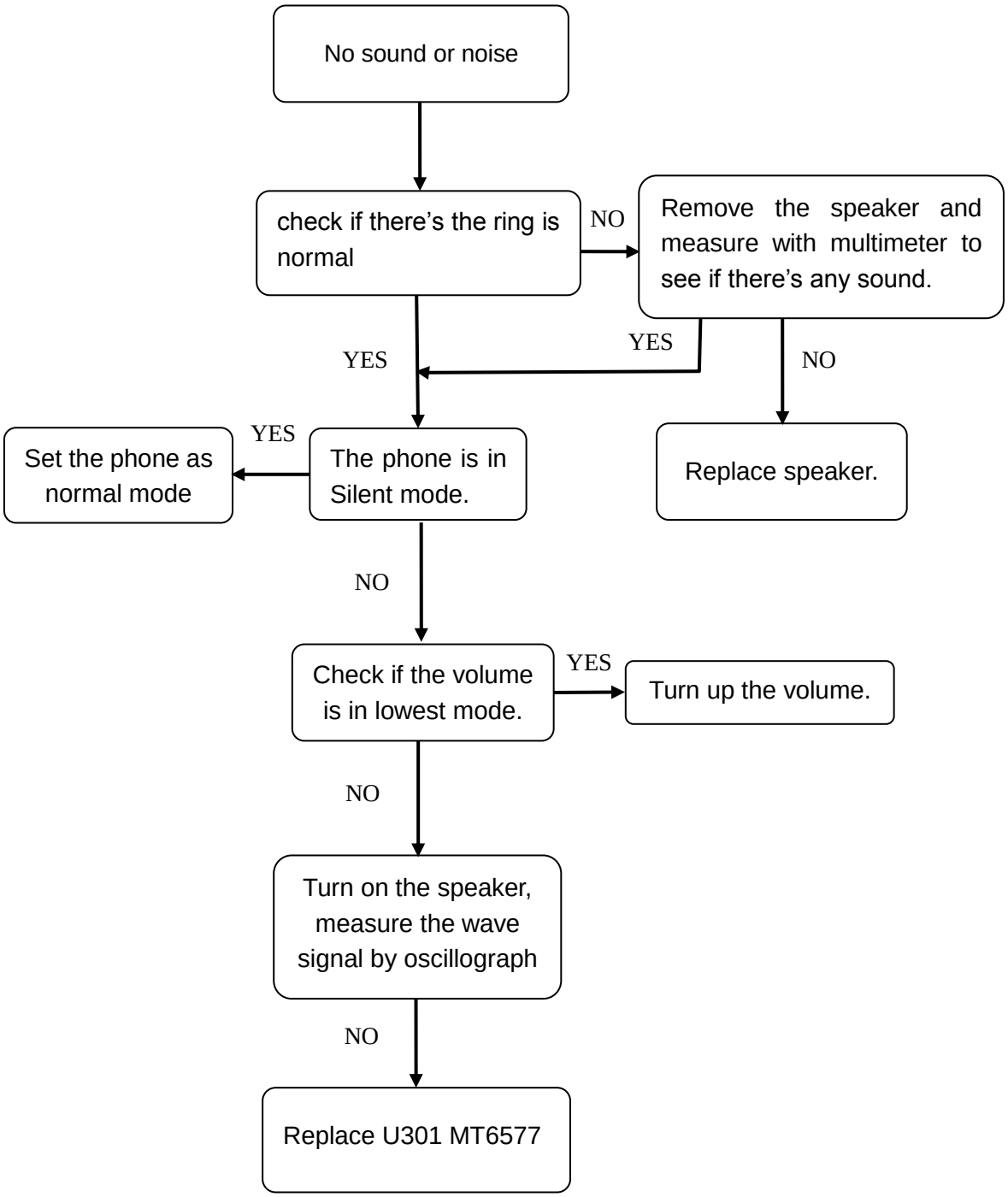
Stand-by short time



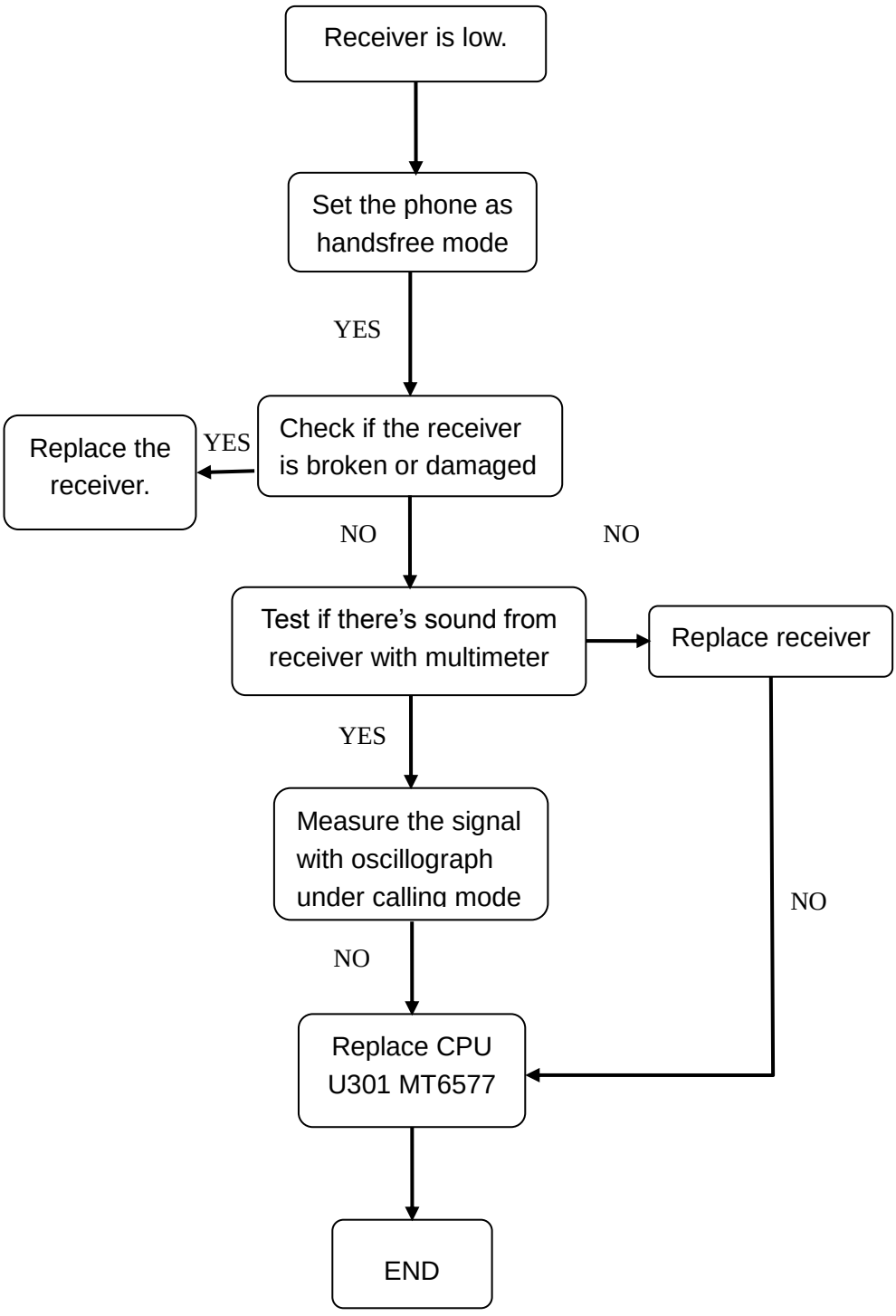
No display or display abnormality



No/Low sound from Speaker



Receiver low voice or no voice



CHAPTER 10 CIT TEST

1.Insert T-Flash card and SIM card , Press power on and by side button at the meantime to enter factory mode for CIT test..

2. Choose Full test menu. to do full test.
3. Test relative items one by one.
a. Version check
b. LCD test
c. Vibrator:
d. LED test
e. Main loopback test..
f. Headset loopback.
g. Speaker.
h. Receiver.
i. Camera.
O: FM
P: Bluetooth.
Q:Wifi.

After finished the test, press ‘’back’’ button and return to Factory mode, and then choose ’’reboot’’ , the unit can power on at normal mode.