OPERATIONAL DESCRIPTION

1. RX antenna switch Circuit

Signal will be input to the 14 TRX switch Ports front-end module U0705 (RTM7916,RDA).The module has 14 RX ports for 2G/3G/4G bands of operation.14 low-insertion-loss TRX ports with enhanced linearity,for state-of-the art 3G/4G perfofmance .,there are one fully programmable MIPI control.

2.TX 2G transceiver Circuit

The GSM850/EGSM 900 signal is input by the 2pin of U0705, and the DCS1800/PCS1900 signal is input by the 3pin of U0702. After U0705 amplification, the signal is output from U0705(22pin) to the antenna.

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3.TX 3G/4G transceiver Circuit

RFPA U0601(OM8443-25U,Onmicro),connected to the Transceiver U0600(SR3595D).

4.LTE diversities Circuit

The signal is received by the antenna and transmitted to U0600, then distributed to the filters, filtered and transmitted to U0600.

5.RF overall schematic

The RF schematic contains the TX path and the RX path. Signals received from the air will be demodulated in the transceiver and then the original voice signal drives the receiver. At the same time, the microphone signal is processed, then modulated to the transceiver, amplified by the RF amplifier, and transmitted from the antenna switch to the air.

6.BT/Wi-Fi/GPS

It contains the TX path and RX path.The signal received from the air will be demodulated in CPU through RX SAW and Transceiver,at last sent to air from the antenna switch.The RX signal (BT,WIFI,GPS)input or output from RF SW,changed three signals , then input the Baseband U7205.The RX signal(BT and WIFI 2.4G)input or output from the t Baseband U7205 The RX signal (GPS)output from RF SW,then input SAW filter,then input LNA(U7203),then input the Baseband U7205.The FM signal is received by the earphone line, then the low-frequency component is filtered out by FB607, then the high-frequency component is filtered by C625, and finally the signal is entered into the CPU (A24 pin), then demodulated, and the sound is output by PMIC.

7 .Charging circuit

The charging IC is U6104, The charging functions are implemented by it.

8.Audio PA

The audio PA is U6 or PMU built in audio PA output .

9.CAM

The front CAM connector is J1600,the rear CAM connector is J5101,2nd CAM connector
is J5102, UMS9230 supports MIPI CSI hight-speed CAM serial interface with 4 data lane(for
main)

10 .LCD+TP

The LCD+TP connector is con4100 , UMS9230 supports portrait panel resolution up
to FHD+,MIPI DSI interface (4 data lanes)

Product Name：	Smart Phone
Brand Name :	BLU
Model Name :	G65L
Product HW Version	A661-MB-V0.1
Product SW Version	BLU_G1130_V14.0.03.01 GENERIC 27-12-2024 22:29
GSM	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz
UMTS	WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz
LTE	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz
Bluetooth	2402 MHz ~ 2480 MHz
GNSS	GPS(L1)/GLONASS(G1)/BDS(B1I)/Galileo(E1), 1559-1610MHz, Rx
FM	87.5-108MHz, Rx
WLAN 2.4GHz: 802.11b 802.11g 802.11n (HT20/HT40) WLAN 5GHz: 802.11a 802.11n (HT20/40) 802.11ac (VHT20/40/80)	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz
Note: The automatic disconnection mechanism was set up before the factory. The product automatically stops transmission when the operation fails or when no information is transmitted. Operating temperature: -10℃~55℃(When the ambient temperature exceeds the EUT temperature, the EUT will automatically shut down the mechanism)	