



Our project uses the ULC3 platform, and the mainboard is composed of two parts of circuits: BB and RF.

The BB circuit part is made up by ULC3_7900, NOR Flash and the external devices. Therein, the charging management part consists of the power management chip, NMOS and other peripheral circuits.

The RF circuit part is made up by ULC3_7900, **RF7170D**, and the external devices. The **RF7170D** is a transmit PA for dual-band cellular handsets

comprising GSM850 and PCS1900 operation. highly-integrated BB+RF transceiver IC. It includes four LNAs, two RF quadrature mixers, a channel filter, a programmable-gain amplifier for the receiver, a high-precision I/Q modulator for the transmitter, a 26MHz VCXO reference, a fractional-N frequency synthesizer with a fully-integrated LC-tank VCO and three built-in LDO regulators for VCO, VCXO and SDM.

Our phone operating frequency ranges as follows:

	GSM850	PCS1900
TX	824-849 MHz	1850-1910MHz
Rx	869-894MHz	1930-1990MHz