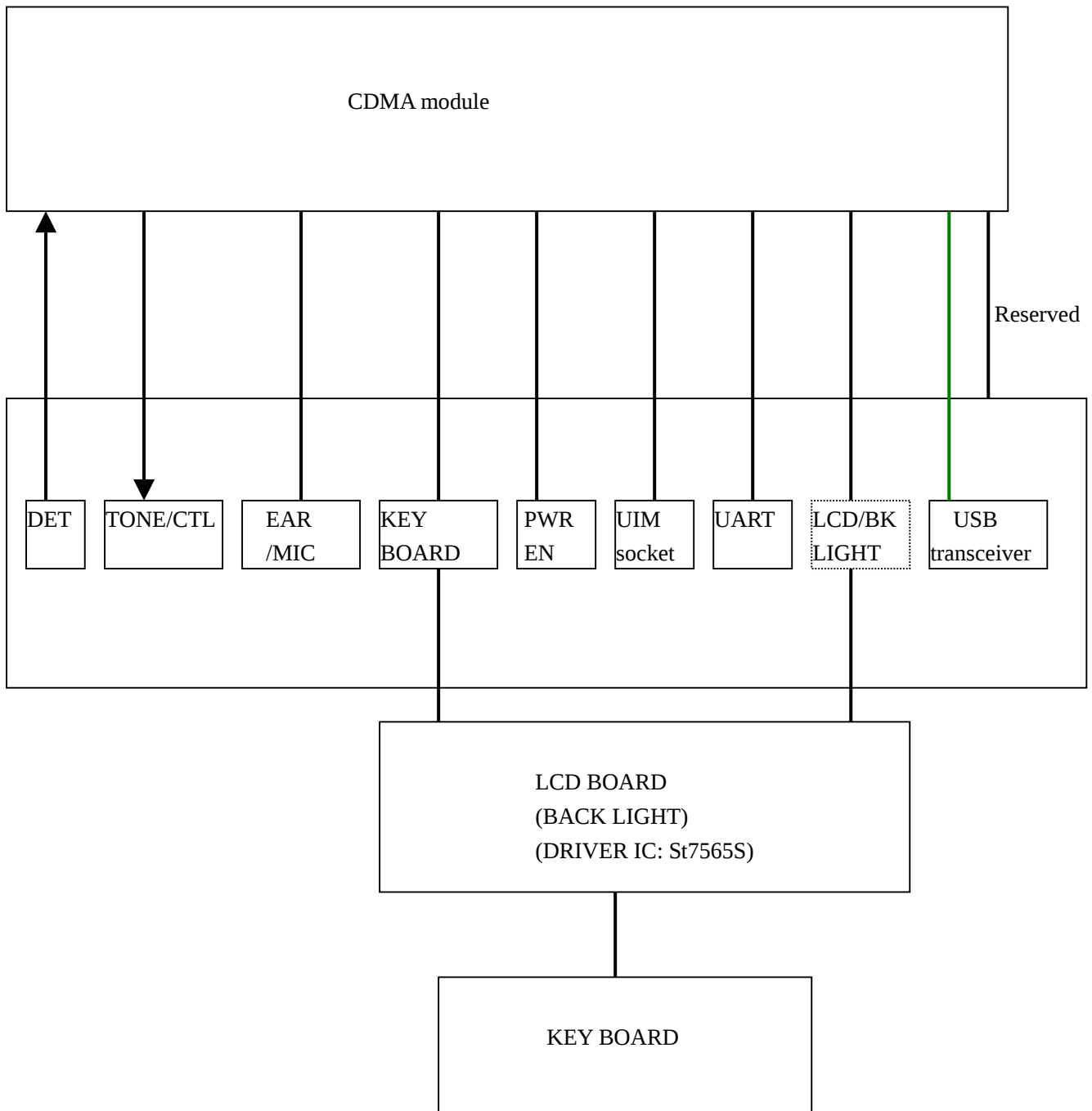
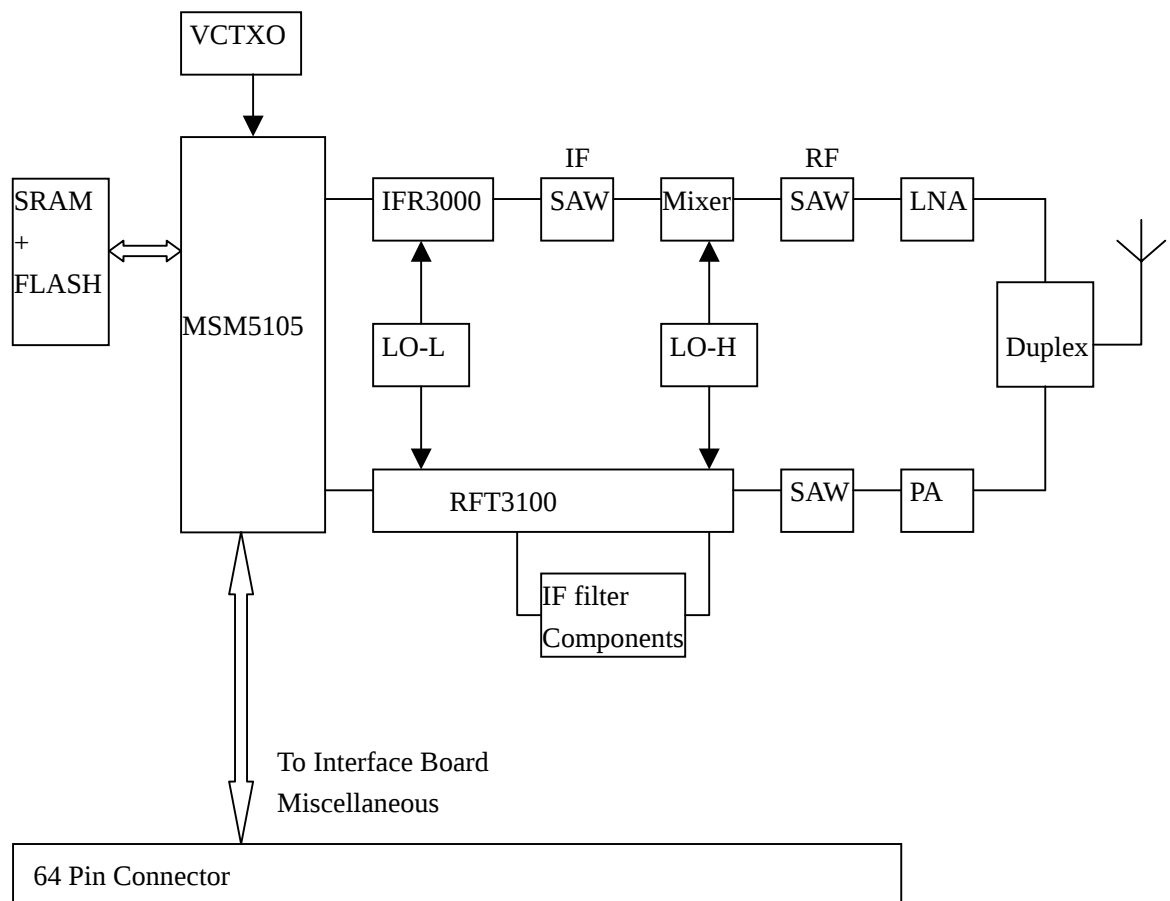


整机框图：



WP960 includes three parts:CDMA MODULE,interface board,LCD&KEYBOARD. CDMA module is the important part of the WP960, include MSM5105,FLASH/ASRAM,RF component. MSM5105, WP960's processor can drive the 128x64 DOTS LCD,detect the keyboard,and process the voice,SMS etc. Interface board includes the audio AMP, which can drive the speaker;the LDO,which provide the power for CDMA MODULE.

CDMA MODULE 框图



For the RX path : The PCS signal received from antenna and through the duplexer ,the duplexer provides excellent repression off-band。 The external LNA(used agilent semiconductor ATF series) provides high linearity and gain with low noise figure。 The Triquint's mixer IC downconverts RF signal of intermediate frequency (IF),and the IFR3000 converts modulated IF signal from IF saw filter into digital baseband data。 Finally , the MSM5105 demodulates RX digital baseband data from IFR3000。

For the TX path : The MSM15105 modulate , interpolate , and converts the digital signal into a analog baseband before sending it to RFT3100 , The RFT3100 upconverts the analog baseband into RF signal。 Finally , the RF signal amplifies by a high linearizing power amplifier , and the amplified RF signal reached the antenna through the duplexer。

The MSM5105 communicates with the external RF and analog baseband to control RF signal gain including the RX and TX paths , reduce baseband offset errors , and tune the external VCO and the system frequency reference。 Finally , the MSM5105 communicates with the interface

board by a 64-pins connector to control the audio analog signal , some other digital signal and the power supply.