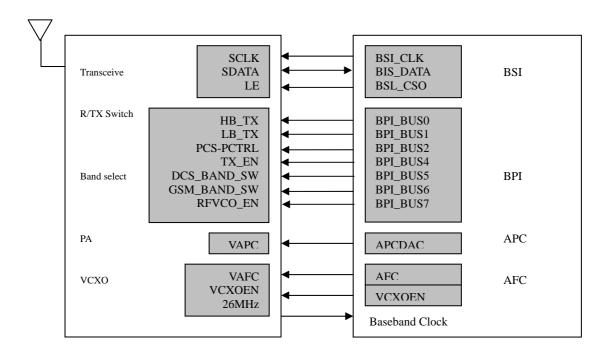
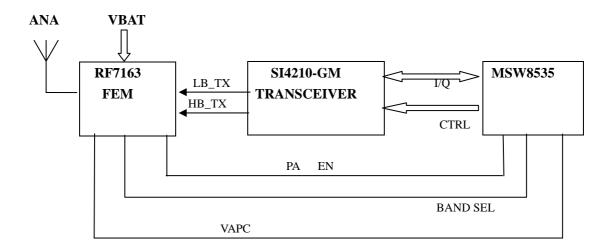


RF Part:



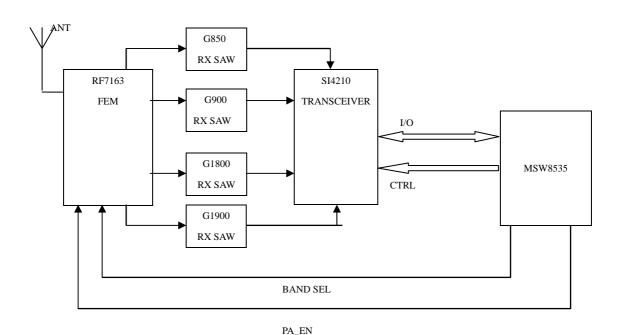
GSM RF and BB interface diagram

2.2 RF TRANSMIT PART



This circuit shows the transmitter path,including the RF7163 and SI4210. The RF7163 is a quad-band(GSM850/EGSM900/DCS1800/PCS1900)GSM/GPRS,Class12 compliant transmit moudle,and is designed for use as the final portion of the transmitter section in a GSM850/EGSM900/DCS1800/PCS1900 handset and eliminates the need for a PA-to-antenna switch moudle matching netwroks. The SI4210 is a fully integrated GSM Transceiver, to support quad-band application without further external active components. The modulated IQ singal from baseband is turned to the RF singal by the SI4210, then the RF signal is amplified by the RF7163 and transmitted to antenna through antenna swith and finally radiated to the air. The PA_en signal controls the RF7163 on or off. The BANDSW signal controls the RF7163 to select LOW band or High band. The VAPC signal is ramping the RF signal. And all control signals are from baseband

2.3 RF RECEIVE PART



This circuit shows the receiver path,including the RF7163,SI4210 and four SAW Filter. The RF7163 is aquad-band transmit module with TX/RX switching,having four interchangeable RX ports allowing quad-band operation. And when the PA_EN Signal is 0,the RF7163 is in RX mode. The SI4210 incudes four fully intergrated Low Noise Amplifier(LNAS),to suppert Quad-Band application. When receiving, the RF signal from antenna, through the RF7163 and SAW Filter, enters the AD6548, ang then amplified and downconverted by quad-rature mixer and then fed to the baseband. Then the RF signal is demodulated to the IQ signals are transmitted to the baseband analog processor by the out pins.