CIRCUIT DESCRIPTION

The majority of the phone circuitry consists of a four device chipset; The MT6260 Baseband Processor.

1. The MT6260 Baseband Processor is a highly integrated mixed signal baseband processor for GSM/GPRS applications, Which is designed to provide a cost-effective,low power and high-performance solution for mobile phones. It consists of an embedded 32-bit microcontroller and an embedded 16-bit DSP core and integrates management unit, analog baseband, audio DAC and ADC, an many drivers, even some resistors to simplify the system design and minimize the total number of system components. Further more, embedded PSRAM is supported in MT6260 for the purpose of decreasing the system complexity.

2. The WPT2N32-6/TR Transceiver IC is consist with RFVCO, Mixer, Loopfilter, LC, and IFVCO, Demodulator and Phase Det filter etc. Serial data can get well communication and controlling with it. And the well characteristics VCO , filter and high performance data dealing and controlling make it as a good IC for mobile design.

3.The AP5200 enlargement is a amplifier for the modulation and demodulation signal and enlarge the well siganl for the mobile using. It supporting the USGSM850, EGSM900, DCS1800 and PCS1900 protocol.

4. Bluetooth IC is a highly integrated single-chip IC with radio

transceiver and baseband processor, which is compliant with Bluetooth 3.0 specification and provides an optimal solution for data and voice application.

The mobile is consist the main part of MT6260, AP5200 and WPT2N32-6/TR, and other I/O interface accessories.

WPT2N32-6/TR is powered and supporting with the 26MHz DCXO and actived the PhaseDet. I/Q is also controlled with it and the the phase signal is pass to the IFVCO and enter to the LNA mixer and filter.

Also, the serial data interface is actived and communicate with the RFVCO, then to the Mixer and loopfilter. As the modulation and demodulation with the MT6260 RF Processing, the GSM signal enter into the 5dB LP and passing through the PA Enlargement for amplify. Then the enlarge siganl run to the LP and to the ANT switch.

Matching with the antenna circuit. The siganl is transmitting out through the ANT.

The receiving procedure is a revised direction as the transmitting procedure while is seperated through the ANT switch and monitor with the Serial data interface terminal.