

APPLICANT: ALTOTECH CO., LTD.
FCC ID: OS2AT-9100

CIRCUIT DESCRIPTIONS:

BASE UNIT

The incoming signal comes in on the antenna and is fed through the duplexer to the LNA, Q500 and then to a SAW bandpass filter, FL501. The frequency range of the base receiver is 926-928MHz. From the bandpass filter the signal is fed to the mixer, Q501 which converts the signal down to 26.05MHz. From Q501 the signal is fed to the IF filter FL502 and then to the integrated circuit U500. In the U500 the signal is converted down to 450KHz and then to the detector for FM signal. From the detector the audio is fed to a low pass filter and to the Channel Detector Indicator. From the low pass filter the audio is fed into another low pass filter and shaper and then to the CPU, U311. From the CPU, U311, the audio is fed to a speaker amplifier and the telephone line depending which is selected. From the CPU the line audio is fed to U305A and then to U305B then to the telephone coupling transformer, T301. The CPU also compares the SECURITY CODES and provides the outgoing SECURITY CODE.

On the transmitting side, when a ring signal is detected the transmitter is turned on by photo coupler integrated circuit U301 and the ring detect signal is fed into the CPU, U306, which in turn triggers the transmitter and send a ring signal to the handset. The base transmit frequency range is 902-904MHz. When the handset answers the base unit connects to the phone line and telephone line audio is fed into the speech network and then to an audio amplifier, Q304. The audio is then fed into the compressor U311. From U311 the audio is fed into the VCO, VT which modulated the outgoing carrier. From the VCO the signal is fed through a series of amplifiers, Q508 & Q509. From Q508 the signal is fed to the antenna.

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CIRCUIT DESCRIPTIONS CONTD.

HANDSET

The incoming signal comes in on the antenna and is fed through the duplexer to the LNA, Q100 and then to a SAW 903MHz bandpass filter. The frequency range of the handset receiver is 902-904MHz. From the bandpass filter the signal is fed to the mixer, Q101 which converts the signal down to 26.05MHz. From Q101 the signal is fed to the IF filter FL102 and then to the integrated circuit U100. In the U100 the signal is converted down to 450KHz and then to the detector for FM signal. From the detector, p/o U100 the audio is fed to a low pass filter and to the RING Detector Indicator. From the low pass filter the audio is fed simultaneously to the earphone element and to the CPU, U101. The earphone audio is fed into U2 and then to U4 then to the receiver element, RC1. The CPU uses the data to continuously monitor the security code.

The transmitter frequency range is 926-928MHz. The outgoing audio is picked up by the microphone and fed to the audio integrated circuit U2. This audio integrated circuit feeds a low pass filter then feed the signal to the VCO, VT. From the VCO the signal is fed in to the amplifier Q107 and Q108 to the duplexer and then to the antenna.

ANTENNA AND GROUND CIRCUITRY

This unit makes use of a short, antenna. The antenna is inductively coupled. The antenna is self contained, no provision is made for an external antenna.

No ground connection is provided. The unit relies on the ground tract of the printed circuit board.

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