

EXHIBIT E

DESCRIPTION OF ELECTRICAL CIRCUITRY

BASE UNIT:

The base unit is a full-duplex, 10 channel fully synthesized transceiver. It can transmit and receive on any one of the 10 approved cordless telephone paired channels within 902.2 MHz and 927.5 MHz frequency bands.

The base consists of a micro-controller, network circuitry and the charger circuitry.

Micro-controller unit: The micro-controller controls the events that happened within the transmitter. These events are like channel selection, switching the transmit carrier on/off and emit digital data signal into the modulator block.

Network circuitry: The network circuitry consists of a ring detector circuit. It detects the ring pulse from the Public Switched Telephone Network (PSTN) and integrates the energy to the input of the microprocessor. R323, R322, C321, C322, R325, C323, D303, R326, R328 and Q305 make up the ring detector circuit.

Charge detector circuit: For the charge detector circuit, if CHG+ is chosen (that means the circuit is charged), Q308 will turn on, this means having a LO signal at the CHGDET. If there is a LO signal at the CHGDET, this means that the circuit is charged up.

Base unit RF module.

From the antenna, the TX and RX path is split by the sawfilter U2.

The RX path is pass through a Saw Filter, a balance circuit and thereafter to the UAA3515. From here onwards, the carrier is demodulated to the baseband signal and channeled to the rest of the circuitries for telephony.

The Tx path, on the other hand, is modulated to the desired RF carrier by the FM modulator.

The frequency selection is accomplished by the signal line for both the Rx and Tx path respectively. These control lines is provided by the frequency synthesizer that is programmed by the microprocessor.

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HANDSET UNIT

The handset unit comprises of the micro-controller, P8xCL882, the keypad matrix, and the UAA3515 900MHz cordless phone IC.

Like the base unit, the Tx and Rx path is split by the Sawfilter U2 just after the antenna.

The Rx path is pass through a Sawfilter, a balance circuit and thereafter to the UAA3515. From here onwards, the carrier is demodulated to baseband signal and channeled to the rest of the circuitries for telephony.

The Tx path, on the other hand, is modulated to the desired RF carrier by the FM modulator.

The frequency selection is accomplished by the signal line for both the Rx and Tx path respectively. These control lines is provided by the frequency synthesizer that is programmed by the Microprocessor.