covered with shield plate in order to minimize interference to other equipment. UAA3515A Philips 900M transceiver IC is used.
When pressing the handset Talk key, handset will start scanning the last channel status(clear or busy)through the carrier detect port (pin29) and send the Linkup command to the base.

During standby, the base will continue scanning the last channel status. After receiving the handset linkup command, if the last channel status is clear, the base will directly linkup with the handset. However, if the last channel status is busy, the base will send command to inform the handset to start scanning the next 3 channels (base also start scanning the next 3 channels). After the handset receiving the final channel status from base, the handset will decide the final clear channel location and send command to tell the base to linkup in that clear channel.

2.9 Security and security code generation

The unit is provided with a fixed 16 bit security code stored in the EEPROM of each handset and base unit. Upon resetting and power up the unit, the ID will be retrieved from the EEPROM and is written to the volatile memory in the handset and base unit for future communication.

From thereafter the stored security code is accompanied each and every time communication between handset and base. These include ringer incoming, talk on, talk off etc. The subsequent commands were execute only if security codes are matched. Therefore it prohibits access of unauthorized used being occupying the unit.

2.10 Acoustic Parameter Storage

Both The Handset and Base unit employed the EEPROM (U2/U4) to hold the pre-set transmit and receive parameters for the Microphone and Receiver used in the unit.

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FCC ID: G9HA9R17
Marstech Report No. 23010D
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