

DESCRIPTION OF CIRCUIT OPERATION

BASE UNIT :

The demodulated signal, resulting from Double Super Heterodyne system, which appears at output Pin no.3 of J3 is sent to IC2 (COMPANDER IC) Pin no.15 for Expansion. The expended audio signal output from Pin no.19 is coupled to Q2,3 during the TEL. mode. The audio signal is sent to the Telephone Line via hybrid Transformer HBY1.

The demodulated data code from J3 Pin no.3 is Generated by Q8, Q9. It's output is connected to CODE Input Pin no.42 of IC1.

The Audio signal receiving from TEL-LINE is input to IC2 Pin no.8 for compression. The compressed audio signal from Pin no.1 of IC2 is connected to Pin no.10 of J3 for TX modulation.

Pin no.2, 18 of IC1 is the output port for data codes that should be transmitted to the handset the data code is connected to Pin no.10 of J3 for modulation.

Relay controlling is done by Pin no.14 of IC1.

Ring signal monitored by IC6 (PHOTO COUPLER IC) is detected by Pin no.39 of IC1 resulting a data code to the handset.

DTMF dialing is generated by IC1 Pin no.34 this signal output through the HYB1.

When the handset is placed on the base cradle, the charging is detected by Pin no.22 of IC1 and IC1 sends data codes to handset for security code setting.

When the handset is far away form base unit, squelch circuit of IC1 operates and Pin no.13 of IC1 goes "HI". This will be detected by the micro processor and after 20 sec. go to Stand by mode.

The power to the base unit is supplied by IC7(5V REGULATOR IC).

LED display control Pin no.1,17 of IC1.

On hook mode, Type 1 caller id signal is entered to Pin no.17of IC3 from Tip,ring Through IC4C,D.

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The demodulated caller id signal is input to IC1 from IC3
IC1 detect it, then transmit to Handset through the RF.
Off hook mode, Type2 caller id signal is entered to pin no.5 of IC1 from HYB1
Through 1C4 A,B.
The demodulated caller id signal is input to IC1 from IC3.
IC1 detect it, then transmit to Handset through the RF.
The selection of Type 1 or 2 caller id signal is accomplished by controlling of Q4

HAND SET :

The demodulated signal, resulting from Double Super Heterodyne system, which appears at output Pin no.3 of J1 is connected to IC102B Pin no.16 Expander input. The audio output from U2-B Pin no.19 is finally amplified by Q8 and A.C coupled to the Receiver unit with HAC compatibility.

The demodulated data code from J1 Pin no.3 is fed to Q9,10.
Q9,10 is connected to (DATA IN) Pin no.26of U1.

Voice signal from C-MIC is coupled to Pin no.8 of U2-A. The voice signal is compressed by IC2A and output Pin no.1 is connected to Pin no.10 of J1 for modulation.

Pin no.29 of U1 is the output port for data code that should be transmitted to the base unit.
This data code is connected to the Pin no.10 of J1 for modulation.

During the charging, it is detected by U1 Pin no.23.

Key board operation is monitored by Pin no.50-57of U1.

Key Tone and the ringing from Pin no.62 of U1 drives the BUZZER.

LCD operation is com. Signal and seg signal.

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