TECHNICAL DESCRIPTION

A. HAND SET

1. CIRCUIT OF RECEIVING AUDIO

Voice signal from Pin No. 11 of RF module (RF1) through Noise Filter Which is consist of R.C and enter into the Compander IC (IC3) Pin No.15 and out to Pin No.19 of IC3 through Expander and expanding in Q4 and out as voice from receiver.

2. CIRCUIT OF SENDING AUDIO

Voice signal from C-MIC enter into the Pin No.8 of Compander IC (IC3) and out from Pin No. 1 of IC3. It enter into Pin No.1 of RF module and send through Antenna after modulating.

3. CIRCUIT OF SENDING POWER SUPPLY & BATT DETECTOR

Voltage is 3.6V Ni-Cd Battery on hand set. Battery power is switched to reduce consumption current through Q11. Also if Battery voltage is under 3.3V, Detector IC (IC4) sense it and warning tone come from.

4. CIRCUIT OF CHARGER POWER

When put hand set into the charger, battery is charged and shows light LED of charger for confirmation of charging.

B. BASE

1. CIRCUIT OF RECEIVING AUDIO
Voice signal from Pin No. 11 of RF module (RF1) through Noise Filter Which is consist of R.C and enter into the Compander IC (IC3) Pin No.15 and out to Pin No. 19 of IC3 through Expander and out to Telephone line through HYBRID TRANSFORMER (T1).

2. CIRCUIT OF SENDING AUDIO
Voice signal from telephone line enter into the Pin No.8 of Compander IC (IC3) through HYBRID TRANSFORMER (T1). It from Pin No. 1 of IC3 enter into the Pin No.1 of RF module and is sent through Antenna after modulation.

3. CIRCUIT OF AUTO SHUT DOWN
SQUELCH input Pin No.14 of CPU (IC1) detect signal from hand set always. If hand set is out of talking distance(range) from base set and (Pin No.14 is high mode) it is over 20 sec, CPU make line to ON HOOK.

4. CIRCUIT OF POWER
Power is 110V adapter on Base set and it change AC voltage to DC9V. DC9V remove pulse type noise and AC HUM by L6,7 & C28, 29 and then supply regular voltage to circuit of power through 5V Regulator Voltage IC (IC4).

5. CIRCUIT OF DTMF/RINGER DETECT.
DTMF signal from CPU (IC1) is connected with Telephone line through HYBRID TRANSFORMER (T1). Pin No.9 of CPU send ringer data to handset when ring signal which is input to Telephone line enter into the Pin No. 13 of CPU through Photo Coupler (IC5).