

DESCRIPTION OF ELECTRICAL CIRCUITRY

BASE UNIT:

A) WHEN A BELL SIGNAL ENTERS FROM TEL LINE

1) The bell is inputted to pin H1, J3 of IC601 (DSP of LINE 1), or pin 15, 17 of IC701 (DSP of LINE2). Then the bell detected by inside circuit.

2) A portable phone receives a bell from the base station.

When the portable phone is switched from the STANDBY to TALK, the base station receives a carrier modulated by data indicating the switch from STANDBY to TALK.

The data demodulated at the base station is inputted to IC601 or IC701, and passes through Q101 or Q201 to make the circuit relay, then, release the muting and enables talk.

B) WHEN A LINE LOOP IS MADE BY A PORTABLE PHONE

- 1) When the operator of the portable phone switches STANDBY to TALK, the TALK mode data enters the base station and is demodulated at the RF Unit of the base station, and is inputted of IC601.

C) RECIEVER UNIT OPERATION

- 1) A signal is received by the antenna, and inputted to the pin C1 and D1 of IC601 through DA501.
- 2) The received signals are mixed by IC601 to obtain digitized audio signal.
- 3) If LINE2 is used, IC601 sends digitized audio signal to IC701 using PCM interface.
- 4) This audio signal is transmitted to the telephone line by IC601 or IC701.

D) TRANSMISSION UNIT OPERATION

- 1) An audio signal from the line passes through the interface transistor (Q103 or Q203).
- 2) The audio signal is inputted to pin J2 of IC601 or pin 25 of IC701.
- 2) This audio signal is coded by IC601 or IC701.
- 3) If LINE2 is used, IC601 receives digitized audio signal by IC701 using PCM interface.
- 4) The modulated signal from pin A4 and A5 of IC601 goes to a selected antenna through DA501.