

## **EP-236**

### **DESCRIPTION OF ELECTRICAL CIRCUITRY**

1.BASE UNIT:

A)WHEN BELL MODE FROM LINE1/LINE2

1)When the ring signal input base unit,the bell detection circuit the photo coupler(U701/U704)begins to operate and inputted DSP(U306/U307).When detects the bell signal,it sends a signal to MCU(U304) ,and display(LCD) the bell signal

2)HANDSET receives a bell from the base station,the display the bell signal and press any key to TALK.

#### A) RECEIVER UNIT OPERATION

- 1) A signal is received by the antenna, and input to RF unit (U404 and RF401).
- 2) The received signal is demodulated and digital signal goes from pin 8 of RF401 is inputted to pin 20 of baseband U201.
- 3) The baseband U201 picks up ADPCM signal and transcoded to PCM signal, and decoded to audio signal with HANDFREE/EARPHONE/HANDHELD mode.
- 4) The HANDFREE mode speaker audio signal outputted from pin 63 of baseband audio signal, and amplified U801 to SPK801.
- 5) The EARPHONE mode receiver audio signal outputted from pin 63 of baseband audio signal.
- 6) The HANDHELD mode receiver audio signal outputted from pin 62 of baseband audio signal.
- 7) The TELEPHONE LINE1/LINE2 mode PCM signal goes from baseband to DSP (U306/U307) is expanded and decoded to audio signal, the audio signal goes from pin 36 (U306/U307), and audio signal is transmitted to the telephone line by U702/U703.

#### B)TRANSMISSION UNIT OPERATION

1)An the audio signal from TELEPHONE LINE1/2 mode passes through U702/U703.and this audio signal amplified by U306/U307.

2)U306/U307 the audio signal is coded to ADPCM signal.

3)The PCM signal goes out from U306/U307 is inputted to U201 and formed TX data.

4)An The HANDFREE/HANDHELD/EARPHONE mode audio signal inputted U201,and coded to ADPCM signal and formed TX data.

5)The TX data goes from U201 is inputted RF401,the modulated signal goes out from RF401 and U406 to antenna.

## 2.HANDSET UNIT:

### A)RECEIVER UNIT OPERATION

- 1)A signal is received by the antenna, and input to RF unit(U401 and RF401).
- 2)The received signal is demodulated and digital signal goes from pin8 of RF401 is inputted to pin 20 of baseband U301.
- 3)The baseband U301 picks up ADPCM and the ADPCM signal from demodulation digital signal.
- 4)The baseband U301 ADPCM signal decoded to audio signal.
- 5)The audio signal from pin65 and pin66 of U301 to receiver.

#### B)TRANSMISSION UNIT OPERATION

- 1)The audio signal from microphone is inputted to pin61 of U301.
- 2)The audio signal is coded ADPCM signal and formed TX data.
- 3)The TX data goes from U301 is inputted RF401,the modulated signal goes out from RF401and U402 to antenna.