

PE File in : 39626 New

SHANGHAI ZI BEI TELESYSTEMS CO., LTD



TECHNICAL DESCRIPTION

Excursion® 39626

900MHZ CORDLESS TELEPHONE

ALL DIGITAL ANSWERING MACHINE WITH INTERCOM AND SPEAKERPHONE

[Signature]
Prepared by : EDWARD ALVIAR *6/8/2000*

Approved by : DAVID ZHANG *David 6/8/2000*

Rev. No. : 0.0

HANDSET

1. RX VCO

Signal receiving from the base unit is input to Q801 through BF802 (903MHz Filter). The input signal is mixed with RX VCO (VD900, ER900, Q900, Q902) signal. The VCO oscillation is controlled by error signal from IC803 (PLL IC) pin 10. The channel information to IC803 is provided by IC506 (MCU) pin 58-60.

2. AUDIO OUT

The Mixer output signal from Q803 and passes through filter MCF801 and enter to IC802 (FM Demodulator) pin 16. This signal mixes with 11.15MHz signal from IC802 pin 1. The mixed signal is filtered by FD801 (450kHz Filter). The modulated signal resulting from double superheterodyne system which appears at IC802 pin 9 is connected to IC504 pin15 expander input. The audio output from IC504 pin 19 is finally amplified by IC507 and AC coupled to the receiver unit.

3. RX DATA INPUT

The demodulated data code from IC802 pin 9 is fed to data filter and amplifiers IC502B and IC502A. The data code is connected to IC506 pin 26.

4. TX VCO

Voice signal from C-mic is coupled to IC504 pin 8. The voice signal is compressed by IC504 and the IC504 output pin 1 is connected to TX VCO. The signal is modulated with the carrier frequency generated by the RF oscillator circuit VCO802 (VD951, ER951 and Q951). The oscillator frequency is controlled by the error signal from IC803 pin 7. The modulated signal is amplified by RF amplifier stage Q952 and Q805 and then passed through filter BF803 (927MHz Filter). The FM modulated signal is radiated by the handset rubberized antenna.

5. CODE OUT

IC506 pin27 is the output port for data code that should be transmitted to the base unit. This data code is connected to the TX VCO stage for modulation via R544-546, C570 and C563.

6. CHARGE DETECTION

When the handset is placed on the base unit charge cradle, the charging is detected by Q508 and the detection is send to IC506 pin8. Upon detection, a data code from IC506 pin27 is send to base.

7. SQUELCH

When the handset is far away from the bas unit, the squelch circuit of IC802 pin 13 goes high. This is detected by IC506 pin 19 and after 30 seconds the base goes to standby mode.

8. KEY BOARD

Key button operation is monitored by IC506 pins3, 20 and 35-38.

9. KEY TONE AND RINGING

Key tone and the ringing data from IC506 pin23 and 32 drive the buzzer.

...appears at IC302 pin 9 is connected to U3 pin15 expander input. The expanded audio signal from U3 pin 19 is inputted to U5 pin 26 and from U5 pin8, it is send to the telephone line via hybrid transformer T2.

3. RX DATA INPUT

The demodulated data code from IC302 pin 9 is fed to data filter and amplifiers U31C and U31D. The data code is connected to U4 pin6.

4. TX VCO

The audio signal receiving from telephone line via T2 is input to U5 pin16 and from U5 pin22, the signal enters U3 pin8. The voice signal is compressed by U3 and U3 output pin1 is connected to TX VCO. The signal is modulated with the carrier frequency generated by the RF oscillator circuit VCO302 (VD451, ER451 AND Q451). The oscillator frequency is controlled by the error signal from IC303 pin 7. The modulated signal is amplified by RF amplifier stage Q452 and Q305 and then passed through filter BF302 (903MHz Filter). The FM modulated signal is radiated by the base antenna.

5. CODE OUT

U4 pin7 is the output port for data code that is transmitted to the handset. This data code is connected to the TX VCO stage for modulation via R21, R30, C20, R38, and C34.

6. RINGING

Relay control is done by U4 pins31 and 32. Ring signal is monitored by IC9 and is detected by IC6 pin20. Upon detection, a data code from IC6 pin27 is send to handset.

7. ANSWERING OPERATION

U206 is a DSP (Digital Sound Processor) IC which converts analog signals to digital signals and vice versa and is controlled by the U4 (MCU) in different answering modes. All voice prompts are permanently digitally stored in U205 and are played back depending on the mode of the unit. All message recordings [Incoming message (ICM), Outgoing message (OGM) and Memo message] are stored digitally in U203.

K-BELL CO.LTD.

USA 40 Channel Frequency table (Model : ... 39626)

- * Channel Space : 50KHz
- * IF : 10.7MHz
- * TCXO : 11.15MHz
- * Ref. Freq. Of PLL : 25kHz

K BELL

CH	Base (MHz)		Handy (MHz)	
	Tx	Local	Tx	Local
		10.7		10.7
1	902.025	915.325	926.025	912.725
2	902.075	915.375	926.075	912.775
3	902.125	915.425	926.125	912.825
4	902.175	915.475	926.175	912.875
5	902.225	915.525	926.225	912.925
6	902.275	915.575	926.275	912.975
7	902.325	915.625	926.325	913.025
8	902.375	915.675	926.375	913.075
9	902.425	915.725	926.425	913.125
10	902.475	915.775	926.475	913.175
11	902.525	915.825	926.525	913.225
12	902.575	915.875	926.575	913.275
13	902.625	915.925	926.625	913.325
14	902.675	915.975	926.675	913.375
15	902.725	916.025	926.725	913.425
16	902.775	916.075	926.775	913.475
17	902.825	916.125	926.825	913.525
18	902.875	916.175	926.875	913.575
19	902.925	916.225	926.925	913.625
20	902.975	916.275	926.975	913.675
21	903.025	916.325	927.025	913.725
22	903.075	916.375	927.075	913.775
23	903.125	916.425	927.125	913.825
24	903.175	916.475	927.175	913.875
25	903.225	916.525	927.225	913.925
26	903.275	916.575	927.275	913.975
27	903.325	916.625	927.325	914.025
28	903.375	916.675	927.375	914.075
29	903.425	916.725	927.425	914.125
30	903.475	916.775	927.475	914.175
31	903.525	916.825	927.525	914.225
32	903.575	916.875	927.575	914.275
33	903.625	916.925	927.625	914.325
34	903.675	916.975	927.675	914.375
35	903.725	917.025	927.725	914.425
36	903.775	917.075	927.775	914.475
37	903.825	917.125	927.825	914.525
38	903.875	917.175	927.875	914.575
39	903.925	917.225	927.925	914.625
40	903.975	917.275	927.975	914.675

9626 APPROVAL WNEW39626 FREQUENCY TABLE