

SHANGHAI ZI BEI TELESYSTEMS CO., LTD

上海紫贝电讯电子有限公司

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CIRCUIT DESCRIPTION OF 39765, 39705, 39605, 39626

1. RF MODULE

1) RX PART

The receiver front-end contains a band pass filter, a RF low noise amplifier, a active transistor mixer, a monolithic crystal filter and a 10.7MHz "IF" amplifier.

The front-end receives RF signal from the antenna. The RF signal frequency range is 902.025—903.975MHz for Handset and 926.025—927.975MHz for Base unit and then passes through RF AMP (Q301, Q801).

After mixed with the first local frequency from voltage controlled oscillator, the signal become IF signal and is amplified on the IF AMP transistor (Q803, Q303), and then pass through the ceramic filter (10.7MHz), finally enter by the FM IF (intermediate frequency) IC. The IF signal is mixed in the FM IF IC (MC3361) again, and then pass through the ceramic filter (455KHz). Finally the output signal in the FM IF IC streams from the AF-OUT terminal of the connector.

2) TX PART

The signal is made to a portable enter by the AF-IN terminal of the connector.

The signal sends the MOD terminal of the TX VCO.

The signal is mixed in the TX VCO mixing the RF signal, the RF signal adjust by the VC301, VC801.

The RF signal enters by the transmission power AMP transistor.

Enter by the band pass filter.

RF signal passes through the band pass filter, towards the ANT. The last transmission RF signal is 926.025—927.975MHz for Handset and 902.025—903.975MHz for Base Unit.

2. HANDSET MAIN

The demodulated signal, resulting from Double Super Heterodyne system, which appears at output Pin No.9 of IC802 (MC3361) is connected to Pin No.16 of IC504 (KA8507). The audio output from Pin No.19 of IC802 is finally amplified by IC507 (KA8602B) and ac coupled to the receiver unit the HAC compatibility.

The demodulated data code from Pin No. 9 of IC802 and it is connected to (DATA IN) Pin No. 13 of IC506 (MCU).

Voice signal from C-MIC is coupled to Pin No.8 of IC504(8507). The voice signal is compressed by IC504, and output Pin No.1 is connected to RF board for modulation.

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Pin No.12 of IC506 (MCU) is the output part for data code that should be transmitted to due base unit.

During the charging, it is detected by Pin No.11 of IC506.

Key board, operation is monitored by Pin No.14, 24-26, 52-57, of IC506.

Key Tone and the ringing from Pin No.31 of IC506 drives the BUZZER.

3. BASE MAIN

The demodulated signal from Pin No.9 of IC802 (MC3361) is sent to IC3 (8507) Pin No.15 to expansion, The expanded signal amplified by IC8A and sent to the telephone line.

Relay controlling is done by Pin No.43 of IC6 (MCU).

Ring signal is detected by IC6 of Pin No.20, and result from a data code to the handset.

Dial of DTMF is generated by IC3 of Pin No.11. This signal output through the base of IC8A to tel-line.

When the handset is placed on the base cradle, the charging is detected by Pin No.13 of IC6 sends data codes to handset for security code setting.

The power to the base unit is supplied by IC4 (5V REGULATOR IC).

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USA 40 Channel Frequency table (Model : New 39705)

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

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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

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Incoming Date:		11-11-99	
		Action By	
		Yvonne Leung	