

## MODEL:39285 BLOCK DIAGRAM DESCRIPTION

### BASE:

#### (1) TRANSMISSION CIRCUIT

RIGNER DETECTION :

THE RING SIGNAL FROM THE LINE TO CPU VIA IC LM 324.

FSK COUPLING CIRCUIT:

THE FSK SIGNAL FROM THE LINE TO CPU VIA 2 CERAMIC CAPACITOR.

COMMUNICATION CIRCUIT:

THE COMMUNICATION SIGNAL FROM THE LINE TO CPU VIA THE TRANSFORMER ..

ALL SIGNAL ARE SENT FROM CPU TO ANT VIA IC AN8953FA,TX POWERAMPLIFIER, AND DUPLEXER.

#### (2) RECEIVING CIRCUIT

THE ANT PICK UP THE SIGNAL AND SEND THEM TO LINE VIA DUPLEXER,RFI AMPLIFIER & MIXER,10.7MHz FILTER,IC AN8953FA,IC LM324 AND TRANSFORMER .

#### (3) THE ANT IS MADE BY 26 TWISTED COPPER WIRES,THE DIAMETER OF THE COPPER WIRE IS 0.15mm.

#### (4) MCU (EM78911)

MCU PROVIDES RING DETECTION, FSK DECODING ,CORDLESS PHONE CONTROLLER

#### (5) CRYSTAL 32.768 KHz PROVIDES THE CLOCK FOR CPU

CRYSTAL 4.0MHz PROVIDES THE CLOCK FOR AN8953FA.

### HANDSET:

#### (1) TRAMSMISSION CIRCUIT

COMMUNICATION:

THE MICROPHONE PICK UP THE VOICE SIGNAL AND SEND THEM TO ANT VIA IC AN8953FA,TX POWER AMPLIFIER AND DUPLEXER.

DTMF/DATA:

THE KEYBOARD IS CONSISTED OF 21 KEYS, DTMF & THE DATA ARE CONTROLLED BY THE CORRESPONDING KEY WHICH CONNECT TO CPU.THE CPU SEND THE SIGNAL TO ANT VIA IC AN8953FA,TX POWER AMPLIFIER AND DUPLEXER.

#### (2) RECEIVING CIRCUIT

CALLER ID SIGNAL:

ANT PICK UP THE SIGNAL AND SEND THEM TO CPU VIA RFI AMPLIFIER&MIXER, 10.7MHz FILTER AND IC AN8953FA, THEN THE CPU DRIVE THE LCD DISPLAY BASE ON THE DATA RECEIVED.

COMMUNICATION:

ANT PICK UP THE SIGNAL AND SEND THEM TO RECEIVER VIA DUPLEXER,RFI AMPLIFIER&MIXER, 10.7MHz FILTER, AND IC AN8953FA

#### (3) THE ANT IS MADE BY A SCREWED,NICKEL COPPER WIRE,THE DIAMETER OF THE COPPER WIRE IS 1.0mm,THE DIAMETER OF SCREW IS 4.8mm.

#### (4) MCU PROVIDES LCD DRIVER, KEY BOARD SCANNING, DIALER&CORDLESS PHONE CONTROLLER .

#### (5) CRYSTAL 32.768KHz PROVIDES THE CLOCK FOR CPU.

CRYSTAL 4.0MHz PROVIDES THE CLOCK FOR AN8953FA.

## Testing Mode Descriptions of 39285

### 1. 40 Channels Freq Table in Test Mode

	Tx	Local Osc.	Tx	Local Osc.
20	903.60	937.40	926.70	892.90
39	904.55	938.35	927.65	893.85
0	902.60	936.40	925.70	891.90
1	902.65	936.45	925.75	891.95
2	902.70	936.50	925.80	892.00
3	902.75	936.55	925.85	892.05
4	902.80	936.60	925.90	892.10
5	902.85	936.65	925.95	892.15
6	902.90	936.70	926.00	892.20
7	902.95	936.75	926.05	892.25
8	903.00	936.80	926.10	892.30
9	903.05	936.85	926.15	892.35
10	903.10	936.90	926.20	892.40
11	903.15	936.95	926.25	892.45
12	903.20	937.00	926.30	892.50
13	903.25	937.05	926.35	892.55
14	903.30	937.10	926.40	892.60
15	903.35	937.15	926.45	892.65
16	903.40	937.20	926.50	892.70
17	903.45	937.25	926.55	892.75
18	903.50	937.30	926.60	892.80
19	903.55	937.35	926.65	892.85
20	903.60	937.40	926.70	892.90
21	903.65	937.45	926.75	892.95
22	903.70	937.50	926.80	893.00
23	903.75	937.55	926.85	893.05
24	903.80	937.60	926.90	893.10
25	903.85	937.65	926.95	893.15
26	903.90	937.70	927.00	893.20
27	903.95	937.75	927.05	893.25
28	904.00	937.80	927.10	893.30
29	904.05	937.85	927.15	893.35
30	904.10	937.90	927.20	893.40
31	904.15	937.95	927.25	893.45
32	904.20	938.00	927.30	893.50
33	904.25	938.05	927.35	893.55
34	904.30	938.10	927.40	893.60
35	904.35	938.15	927.45	893.65
36	904.40	938.20	927.50	893.70
37	904.45	938.25	927.55	893.75
38	904.50	938.30	927.60	893.80
39	904.55	938.35	927.65	893.85
0	902.60	936.40	925.70	891.90
1	902.65	936.45	925.75	891.95
	.....	.....	.....	.....
38	904.50	938.30	927.60	893.80
39	904.55	938.35	927.65	893.85
0	902.60	936.40	925.70	891.90