CHASSIS UNIT

ANT1 (50ohm)

ANT2 (450ohm)

UT-106 (OPT)

UT-102 (OPT)

SPEECH LEVEL

R1254 RV-148

BEEP

IC1291 LA4425A FVR AMP

IC1281 BU4052BCFV AF MUTE

VCA

AF AMP

IC1261 M5282FP

AFMS

RFGV

3kHz

IC1201 BU4052BCFV AF SELECT

IC1211B NJM2058M

IC1211A NJM2058M

AFS1

AFS2

AFGS

RGLS

IC1211D NJM2058M DE-EMPHA

IC1001 TA31136FN

X1001 CD8450C24

FM DET

FMNL

IF AMP

Q1001 2SK882 GR

X2021 CSA3.60MGF103 <3.60MHz>

IC2001 MC13022ADW

Q2021 DTC114EU

AM DET

BUFF

Q1031 2SC4081 R

SALT

SAMS

Q1063 2SC4081 R

AGC AMP

D1061 1SS375

AGC DET

AGC

IC1211C NJM2058M

D831 1SS302

METR AMP

SML

Q1061 XP4311

Q1064 XP4311

Q1065 XP4311

Q1066 XP4311

DELAY CTRL

Q1051 2SC4081 R

D1051 1SS367

BUFF

RFGV

AGRS

AGFS

AGSS

AGOS

RX TOTAL GAIN

IC1101 MC1496D

Q911 2SK882 GR

Q912 2SC4081 R

IF AMP

R898 RV-150

Q891 3SK131 MAS

AGC

FI851 FL-65 CERAMIC BPF 3F3K

FI861 CFWS450HT CERAMIC BPF 3F6K

FI871 CFWS450E CERAMIC BPF 3F15

XTAL BPF (OPT) 3F0P

IC811 MC1496D

Q801 2SC4081 R

BUFF

FI761 FL-272 XTAL BPF 2F3K

2FTH

2F0P

IC1603 TD62783AF DRIVER

RSSK RSTH RS0P RS6K RS3K RS1S RS0P SAMS

Q721 3SK131 MAS

FI701 FL-23 XTAL BPF 8W=15kHz

D711 MA77 D712 MA77 D713 MA77 D714 MA77

NB GATE

Q735 2SC4081 R

Q736 DTC114EU

Q737 XP4311

D732 1SS355

GATE CTRL

NBS NBLS UNLC

D731 1SS375 NB DET

Q733 2SC4081 R NOISE AMP

IC731 LA1150N NOISE AMP

Q731 2SK882 GR NOISE AMP

Q734 2SC4081 R AGC AMP

Q732 2SA1576 R AGC AMP

D491 HSB88WS

Q472 XP4311 R14V REG

R8V 14V

Q471 3SK131 MAS IF AMP

AGC

3dB ATT

Q411 2SC4673 D LO AMP

130MHz LPF

Q441 2SK1740 Q442 2SK1740

FI461 FL-261 XTAL BPF 8W=15kHz

LPF 60MHz

POFF

PRE1 14V

PRE2 14V

Q381 2SK2171 4

Q382 2SK2171 4

PRE AMP

PRE1 REG

Q383 XP4311

IC391 UPC1658G

PRE AMP

PRE2 REG

Q391 XP4311

10dB ATT B0

2MHz LPF B1

2~4MHz BPF B2

4~8MHz BPF B3

8~11MHz BPF B4

11~15MHz BPF B5

15~22MHz BPF B6

22~30MHz BPF B7

30~50MHz BPF B8

50~60MHz BPF B9

1.6MHz LPF

1.6MHz HPF

SW CTRL

Q151 DTC114EU

ATTC

RL141 MZ-12HG

20dB ATT

PRO-TECT

Q141 1SS302 D142 1SS302

ANTC

60MHz LPF

RL121 MZ-12HG

450 to 50 ohm

PRE1 PRE2 POFF SWTC ANTC

IC561 TD62783AF IC562 TD62783AF DRIVER

SHIFT REG-ISTOR IC561 BU4094BCFV IC562 BU4094BCFV

MCK MDAT RSTB

BVS B1S B2S B3S B4S B5S B6S B7S B8S B9S PR1S PR2S POFS SWTS ANTS

EXT SP

EXT SP JACK

BT1521 CR2032

INT SP

PHONES

PHONE JACK

PHONE BOARD

DISPLAY BOARD

LCD DS101 HLC7395-012400

DRIVER IC101 HD66100F

BACK LIGHT TLYE1002 X 24

DIMV

Q11 2SC4116 BL

Q21 2SC4116 BL

Q31 2SC4116 BL

Q41 2SC4116 BL

Q51 2SC4116 BL

Q61 2SC4116 BL

Q71 2SC4116 BL

Q81 2SC4116 BL

VR BOARD

R141(I) AF GAIN

R141(O) RF GAIN /SQL

R131(I) TWIN PBT(I)

R131(O) TWIN PBT(O)

AFGL RFGL PBTL PBZL

FRONT KEY

MUP MDN

DRIVER

EP1 RMS20-250-201-1R MAIN DIAL

FRONT UNIT

LOGIC BOARD

BACKUP SW BSV

Q511 2SA1576 R Q512 XP4601

Q421 DTA144EU

IC401A TC74HC04AF IC401B TC74HC04AF IC401C TC74HC04AF IC401D TC74HC04AF IC401E TC74HC04AF IC401F TC74HC04AF

Q401 XP4601 D401 1SS355

CPU IC101 HD6433835V

EEPROM IC231 X25320S

D/A IC351 MS2354GP

X111 CM200S <32.768kHz>

X112 CR-567 <9.8304MHz>

Q391 2SC4116 BL D381 MA8051 M D382 MA729 D393 1SS355 IC391 S-80842ALMP-DD6 IC392 TC7S08F

RESET

Q351 DTC114EU

BEEP

BPCK

SHIFT REG-ISTOR IC1601 BU4094BCFV

SHIFT REG-ISTOR IC1602 BU4094BCFV

DC_IN

F1351 FGB 3A

HVR

IC1361 AN78L05M +5 REG

D1351 DSA361 PRO-TECT

HSV

14V

Q1381 2SC1664 Q Q1382 DTC114EU D1381 1SS302 R8 REG

R8V

RXS

IC1371 PQ30RV31 D1371 1SS355 REG

PWRC

IC1391 TA7808F +8 REG

8V

IC1401 TA7805F +5 REG

5V

IC1411 UPC1555G2 D1412 1SS302 D1413 MA8051 M -5 DC-DC

-5V

IC1751 DS14C232TM IC1771 TC7W04F Q1771 2SA1576 R Q1772 2SC4081 R D1771 1SS355

DRIVER RS-232C

Q1311 2SC4081 R D1311 1SS355

EMTL MUTE

Q96 2SC4117 RIPPLE FILTER

8V

<69.041500-129.011500MHz>

<69.041500-99.011499MHz>

<99.011500-129.011500MHz>

Q71 2SK508 Q72 DTC114EU D71 KV1470

Q81 2SK508 Q82 DTC114EU D81 KV1470

Q91 2SC4405 LO AMP

LOF2

LPF Q92 DTA114EU D91 MA77 D92 MA77

Q93 DTC114EU VCO SW

VCOS

LOOP FIL

Q21 2SC4117 AMP

6.0MHz LPF D/A

P/D DDS

DDS Output Freq = P/D Freq

DIV (1/R)

P/D Freq = 30MHz / R (R=7,8,9,10)

IC23 TC7S04F AMP

IC22 UPB1509GV 1/4

IC21 SC-1246/A

LOF2 VCOS PULS ULD PCK PDAT PS1S PS2S DRES

<9.4665MHz>

IC151 SC-1287 DDS

Q151 2SC4117 AMP

<455kHz>

IC201 SC-1287 DDS

Q201 2SC4117 AMP

Q2 2SC4405 ×2

<60MHz>

<30MHz>

Q1 2SC4405

X1 CR-275A

CR-282 (OPT)

Q3 DTC114EU D1 DAN222

ULD PULS UNLC

Q4 DTC114EU D2 1SS355 RL1 AHY103

RECS REC REMOTE

REC OUT

PLL UNIT

MAIN UNIT

REVISIONS							
1	. .		7	. .	APPD.	CHKD.	
2	. .		8	. .			
3	. .		9	. .			
4	. .		10	. .			
5	. .		11	. .			
6	. .		12	. .			

DWN. BY: | DATE 1999.02.25 | MODEL IC-R75

BLOCK DIAGRAM | DWN. NO. -5B1

ICOM | Icom Inc.