1. Handset

1.1 TX

MIC signal output to U2 (SC1443PP) via pin 72(MIC),pin 73(VREF).when TX signal is received by U2, then processing via A/D, then output to RF by pin 22(TDO).RF send TX to BASE.

Bandwidth 20db<864kHZ

1.2 RX

When RF receive the signal, after demodulation then send to baseband controller(PIN23 HS_RDI). baseband controller process the signal and transform to voice output to receiver(via pin 66 HS_LSR/REF- ,PIN 67 HS_LSR/REF ) or speaker(pin30 HS_PAOUTM,PIN32 HS_PAOUTP) Related component:

C390,SPK1,C46,C65,C48,SPK2,C40,C39,C47

1.3 2.5V REGULATOR

2.5v regulator supply DC power for RF+2.5V,VDDID(PIN38,PIN2,PIN63). Related components:Q4,C42,C10,R24.

1.4 3.0V REGULATOR

3.0v regulator supply DC power for VMCU.BACKLIGHT LED. Related components:U2,Q2,D9,L1,R1,C3,C37,C4,Q6,R36,R35,R34,R33,R28,C69.

1.5 2.4V REGULATOR

2.4v regulator supply DC power for RF(PA2V40.U2(PIN31)VDDPA.VBATT1 Related components:C2,R23,C43,C34 C63 C64,C44,R3.

Bandwidth 20db<864kHZ

2. Base

2.1 TX

Telephone line signal output to U2 (SC1443FP) via pin 59.the signal

processed by U2 then output to RF module via pin 18.

Bandwidth 20db<864kHZ

2.2 RX

RF received the signal, after demodulation then send to U2 via pin 19.U2 process the

signal and transform to voice output to telephone line via pin53.

Related components:

Q2,R11,R12,R8,R7,C54,R10,C5,R9,C66,C6,R14,C7,C24,C76,C67.

2.3 3.1V REGULATOR

Regulator U3 supply 3.1V power for base as well as PA2V4 and +3.1V.

2.3 2.5V REGULATOR

Regulator Q5 supply 2.5V for base as well as RF(+2.5V) and U2(PIN30,PIN2U1(PIN5).

2.4 Ringer detection

the ringer signal to U2 pin 60,pin52. Then send to handset

Related component:

U2,R1,R2,C3,C4,R24,C23,R25,C25.

Bandwidth 20db<864kHZ