

Diagram Circuit Characteristics Description of BKPG-302

BKGP-302 is a fixed wireless phone, which is adopted the RF module we designed ourselves. It implements fixed phone's function by IC, also implements the basic function of the mobile phone, at same time it is able to implement telephone function, so it bears the telephone character.

The whole PCB board includes main board and modules. The main board mainly includes handset, speaker phone, SIM card circuit, keypad parts and LCD interface. The microphone of handset connects with 53th and 54th foot of the module by MIC_P AND MIC_M. The microphone of Speaker phone connects with 49th and 48th foots of the module by Line_I_P and LINE_I_M. The SPK connects with 46th and 47th foots of the module by SPK_P and SPK_M. SPK connects with 51th and 52th foots of the module by LINE_O_P and LINE_O_M. SIM circuit connects with 68th, 69th, 70th and 71th foots of module by VSIM, SIM_CLKO, SIM_RSTO and SIM_DATA respectively. The keypad board and LCD board are connected by JK4 and JK7. RF circuit and Audio parts mainly are include in module.

In transmission part, first the audio signal sent is converted from sound wave signal to voice signal by telephone transmitter, then is sent to CX20524-13 by MIC_P and MIC_M, the simulation electric signal is converted to digit signal in CX20524-13. then the digit signal is sent to CX805-32 by ENC_DATA, CDC_RT and CDC_CLK, and it is coded and encrypted in CX805-32, after that

it is sent to CX20524-13 by G3(CNTRLDAT),F3(CNTRLCLK),H1(CNTRLRT),E18(CTL_DATA),D18(CTL_CLK),E16(CTI_RATE).In CX20524-13, the signal is modulated, after that, the modulated signal is sent to CX74063-35 by TX_I_P, TX_I_M, TX_O_P and TX_O_M. Last the ampliative signal is sent out by antenna after SKY77321 microscope.