

CA operational description

The working procedure for CA is: it first receives the information from 433.5Mhz micro-power wireless call button, translate it to the information with indicating significance, the code is POCSAG code format, then send it through the 462.85Mhz large power transmitter via antenna to make the relevant mobile receiver to receive the messages.

Receiver working procedure: RF wireless signal of the call button which is received from antenna, to the receiving chip U4, inside which the signal is demodulated, and turns to the wave of TTL power level, via the reshaping of U1 active filter, delivers to single chip U101 for decoding.

Transmitter working procedure: single chip U101 encodes those prestored receiver ID code and messages to be sent to POCSAG format, passes them on to transmitting chip U102 with commands method, controls transmitting chip U102 to generate carrier wave and modulation signal, at the same time single chip controls RF power amplifier Q3 to power on, after the RF signal is amplified, it will be sent through the antenna.

Thus, the relay process from receiving to transmitting is finished.

Finally shut off the transmitter and wait for next time transmitting.