

Operational Principle

1. CPU, CX5173 have an 8-bit microprocessor with low-power and high-speed CMOS technology. Operation frequency is 4MHz. It needs an external 4MHz crystal for reference frequency; this crystal is also used for RF module. This chip is responsible to control RF-Baseband Transceiver (SIGNA6210).
2. EEPROM, 24C02, 2048 bits of serial electrically erasable and programmable read only memory (EEPROM) organized as 256 words of 8 bits each. The device is optimized for use in many industrial and commercial applications where low-power operation are essential.
3. 2.4 GHz ISM Band Transceiver/Framer, SIGNA6210 which is a low-cost, fully integrated CMOS radio frequency (RF) transceiver block, combined with a 64-byte buffered framer block. It contains transmit, receive, VCO and PLL functions, including an on-chip channel filter and resonator, with an external 12MHz crystal for reference frequency.
4. Boost convert, LX8271CP, battery voltage rise to 2.7V.
5. Voltage detector, ME2801A-22M, detected voltage (2.2V) of battery, Prompt the user to change the battery;
6. ANTENNA, The antenna is typically fed from the end of the monopole section by a plated through-hole via which is in turn connected to the RF output on the 2402-2480MHz band.