

Circuit Description

SYSTEM OPERATION PROCESS:

Set the lithium battery 3.7v and make the RTC work, then, the system is running.

LTC4063 (PMU) is powered, and each ADC module is open, then the 16M is starting. At last, the RESETB is reset.

RADIO FREQUENCY OPERATION PROCESS:

RF technology plays an irreplaceable role in the wireless communication area. It can be used to make modulation(amplitude or frequency modulation) of electrical source(analogue or digital) through high-frequency current. The RF signal formed is radiated into the sky through the antenna. The RF signal is received over a long distance ,and demodulated and restored into electrical source. That processing is known as wireless transmission.

ErgoLAB wireless sensors with RF technology is small volume, and ease to ware. Its specification contains the high 16bit resolution , up to 4096 Hz sampling frequency, and can be used almost indoors anyplace. It has some good features of denoising and timeliness.

OPERATING FREQUENCY RANGE

2.4 GHz ISM 2402MHz

INPUT VOLTAGE

lithium battery 3.7v or USB DC 5

ANTENNA

1.7 dB Chip Antenna