Transmitter

01.MCU will scan the button and optical sensor signal. If any signal change come from above mention. It will turn convert the data package With checking the low battery status data, and prepares turn on the RF power, Touch link button link to receiver.. then firmware will be setting the channel is ch1, if user want to use ch2, just need to touch link button link to receiver again, so, the channel is arrange in proper sequence, On this account to set up use same method.

02.When MCU received the signal of any key. Firstly, MCU will turn on the RF power, transmitter button or optical sensor data.

03.When the application MCU has data to send, set CE high. This activates RF2402 on-board data processing.

04.The address of the receiving node(RX address) and payload data is clocked into the nRF2402. The application protocol or MCU sets the speed(ex : 10kbps).

05.MCU sets CE low, this activates a nRF2402 ShockBurst transmission.

06.nRF2402 ShockBurst :

. RF front end is powered up

. RF package is completed(preamble added, CRC calculated)

. Data is transmitted at high speed (250kbps or 1 Mbps configured by user)

. nRF2402 returns to stand-by when finished

07.Power amplifier is to support enough current to drive the antenna.

08.. Matching circuit is to match the impedance between PA and antenna..