circuit description

U2（PAN3204） is a optical sensor with a internal RC Oscillator supply working frequency . U2 communicates with U1 (mouse MCU) in 2 signal channels, SDIO and SCLK which control serial data signal and clock of optical sensor. C4,C14 the capacity is used as a filter. LED3 the LED scans the surface, the optical sensor process this information to voltage signal and transmit it to U1.

U1, the mouse MCU encode the data, then modulate the data with a complete set of G FSK modulation, send the modulated signal to RF antenna.   the 12MHz crystal through multiple frequency arrive to 2.4GHz supply the working clock and the modulated frequency for U1.