

## N99J1WPLL4R Circuit Description

Block 1 : The Button of this product.

When being pressed this remote starts to work.  
(SW1,SW2,SW3,SW4)

Block 2 : The Battery Supply the power of +DC6volts to the circuits.

Block 3 : The Regulator supply the power of +DC3volts to the Micro-controller and VCO.  
(U2, TC1)

Block 4 : This is the Micro-controller

U1(Micro-controller) reads the button and make the radio transmission circuit work.

Block 5 : This is the real time clock  
(RES1 (4MHz)).

Block 6 : This is the radio power control circuit(VCO) by U1.

Block 7 : U1 can make the modulation by this block.  
By switching(between 0V and 3V) at VCO the frequency modulation is done.  
(R20,R21,C13,R15)

Block 8 : This is the VCO basic oscillator.  
(XT1(19.680MHz), C5,C6, VC1).

Block 9 : This is the Voltage Control Oscillator circuit to radiate the radio frequency.  
Oscillator 907.169545MHz by 19.680MHz and VCO.  
(VCO1, X2, Q3)

Block 10 : Beside 907.169545MHz will be removed by filter.  
(L1, L2, C10, C9)