

Transmitter:

3V Battery:

Two AA batteries have been used to supply the power for the unit.

MCU: PIC16LC54

MCU clocked by 4MHz crystal. MCU wakes up when someone who pressed the keypad on the transmitter. It reads the address from address selector when starting to operate. After released the keypad for two second, MCU send command signal to transmitter part to control the receiver unit.

RF Transmitter: Q1, SAW1

When MCU send logic high to RF Transmitter part, 315MHz RF signals will be transmitted from antenna. When MCU send logic zero to RF Transmitter part, there are no actions on the RF Transmitter.

Address Selector: SW1

There is one 3-pole slide switch that used to avoid the crosstalk between transmitters.

Keypad: S1, S2, S3

The keypad of the transmitter that have 3 button are "+", "-", and "Cancel". These keys are used to override the set temperature of the receiver.