

## **Circuit Principle description:**

This 2.4G wireless controller used for PS3 console. The controller communicates with PS3 console by main chip MTF0300RX of the Dongle and MTF0300TX for the controller, MTF0300RX communicate with PS3 console by USB port of PS3 console. The communication between the Dongle and the Controller use a true single chip 2.4 GHz RF transceiver module in each other.

The 2.4GHz RF transceiver module Frequency range is 2.402GHZ to 2480MHZ, They are working in Frequency-Hopping Spread Spectrum mode. Modulation type for MSK.

For the dongle, The main chip MTF0300RX receives all game control data by 2.4GHZ module and communicate with PS3 console by USB port. The system clock is 12 MHZ, a 5V power supply and data communications by USB of PS3 console, A LDO output DC3.0V used for the main system.