

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, 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 2.402 GHZ to 2480MHZ, They are working in Frequency-Hopping Spread Spectrum mode. Modulation type for MSK. The max power out at 1dbm for game data communication from Controller to Dongle, For the module, The system clock is 26MHZ, Use a PCB antenna, impedance matching at 2.4GHZ band, Wireless communications distance up to 15 meters.

For the Controller, The main chip MTF0300TX processes all game control data to 2.4GHZ module for sending to Dongle. The system clock is 12 MHZ, Build in a Li-ion battery with USB charging circuit for power supply, Charging by USB port with DC5V. when charging by USB, the product can't normal operation. LDO output DC3.0 V used for the main system.