PS2 GUITAR CONTROLLER(WIRELESS)

Operation Principle

Applicant:INTEC INC

Address:7600 CORPORATE CENTER DRIVE, SUITE 400 MIAMI, FL33126

A) Operation Frequency: 2402MHz~2480MHz

B) Modulation: GFSK C) Number of Channel: 75

D) Rated RF Output Power: 87.52dBuV/m E) Antenna Designation: PCB antenna

F) Power Supply: 4*1.5V Battery

The radio system is mainly composed of three parts: radio modem, frequencysynthesizer and base band microprocessor. The radio modem is a MSK modem running at 250 kbps. The antenna is an embedded PCB antenna matching is done by using lumped inductors and capacitors.

MRP839 are wireless Game Guitar Controller. It's working at FSR 2402MHz to 2480MHz; base frequency is 12MHz.for MCU control and RF module. Transmit device produce the any word when Power ON, and Occurred an arbitrary channel, then transmit by RF module.

The microcontroller scans keystrokes on the joypad, then packs the data by adding preambles, frame information, and error checking bytes. The radio system uses one of 75channels (the frequency range is 2.402-2.480GHz) to send signal in random, and the channels change frequency is 62.5HZ per second. Otherwise, there are 4 synchronous channels (distribute in the 75 channels uniformity).

The joypad radio is powered by 3-AA side batteries and regulated to 6.0V. The power consumption of RF module is about 4mA, the total power consumption of the joypad side radio system is about 8mA in normal working mode. It will enter sleep mode if no key be pressed after 5 minutes, in this mode the total power consumption of joypad is only about 40uA*.