

# Operational Description

Date: 2005/9/27

EUT is a Cordless Portable Mini Optical Mouse with 1 channel (27.045MHz). EUT use to eliminate bothersome cables and maximize your working space anytime anywhere. It's cordless works up to 10 meters from your PC or notebook.

## General Operational Description:

### 1. Time base of the transmission frequency:

For IF and RF frequency, Crystal is a clock reference.

### 2. Mixer:

Mixer inside Transmitter IC and operate frequency in 27MHz Band. External crystal provides the desired LO signal plus Mixer frequency base on RF signal.

### 3. Transmission:

The EUT control signal is processed by MCU Controller Unit for FSK modulation. The rated output power by power external amplifier, and is to the antenna after suppression of spurious emissions through antenna matching network.

### 4. Base band Processing:

Channel Setting: Channel Setting is controlled by MCU

Data Modulation: FSK modulation type, it is controlled by MCU IC.

Power Control Level: Output power is controlled by external amplifier.

### 5. Interface: USB

### 6. Power: Input 3Vdc from Batteries. This power is provided to regulator components to regulated DC power.

## Features of Equipment under Test

Items	Description
Type of Modulation	FSK
Number of Channels	1
Frequency Band	27.045MHz
Antenna Type / Gain	Printed Antenna / 1dBi
Testing Duty Cycle	100.00%
Power Rating (DC/AC, Voltage)	3.0V DC from Battery (for Mouse)
Temperature Range (Operating)	0~55°C