

# BT3013 Series

## Bluetooth HID module



### Features

- Compatible with Bluetooth Specification version 1.2
- Support Bluetooth HID Profile
- Support boot mode
- Compatible with WinXP SP2 Bluetooth HID Profile
- Excellence receiver sensitivity

### Applications

- Wireless Keyboard
- Wireless Mouse
- Joystick
- Game Controller

### Benefits

- On-chip support for common keyboard and mouse interface eliminates external processor
- Same module suitable for both keyboard and mouse

**BT3013 - ROM Based**

**BT3013F - Flash Based**

**BT3013S - ROM Based, compact size**

**B**T3013 Series Bluetooth™ HID Module is a Bluetooth 1.2 compliant module with intergrated antenna.

The module is idea for applications in wireless input devices including keyboard, mouse, joysticks and game controllers.

The module supports Bluetooth Human Interface Device (HID) profile.



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## Bluetooth HID module

### Specifications

#### Standard

- Bluetooth specification Ver. 1.2

#### Profile

- Bluetooth HID Profile

#### Frequency Range

(Range depends on different country)

- 24 GHz ~ 2.462 GHz

#### Modulation

- GFSK

#### Channel

- 79 to 15 (Adaptive frequency channel)

#### Output Power

- Class 2 and Class 3 programmable

#### Receiving Sensitivity

- -86 dBm (minimum)

#### Data Rate

- up to 1 Mbps

#### Dimention

- BT3013 : 34 x 19.6mm
- BT3013F : 42.5 x 17.5mm
- BT3013S : 33 x 13mm

#### Operating Range

- up to 10m  
open space

#### GPIO Interface

- Keyboard : 8\*19 key-scan matrix (152 keys)
- Mouse : 3-axis quadrature inputs  
(X,Y, scroll wheel)
- 4 GPIO : pins to drive LEDs/LCDs for indicators  
(cap/num/scroll-locks, etc) ; provide up to 15mA  
to power external opto-electronics

#### Antenna

- printed antenna

#### Environment

- Temperature Range : 0° ~ 50°C  
(32 to 131 F) operating
- -20° ~ 65°C (-4 to 140 F)-storage
- Humidity (non-condensing) : 95% (Maximum)

Bluetooth Keyboard



Bluetooth USB Dongle



Bluetooth Mouse



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