



# MS-6837

## Bluetooth Module

### General Description

The Bluetooth module, MS-6837 is a general purpose module available right now. It is a SMT component design with 35 pins. It is implemented by CSR BlueCore2-External solution and already certified with Bluetooth 1.1 and compliant with Bluetooth 1.2. It features an mouse, keyboard, joystick and the HID profile is certified by BQB testing lab.

The MS-6837 module also provides all the enriched HCI features, such as LAN, PAN, Headset, FTP, FAX...functions.

### Applications

#### HID Products (PC Client, 4M is requested)

- |                   |                           |
|-------------------|---------------------------|
| Mouse             | • Keyboard                |
| Key Pad           | • Game Pad                |
| Hand writing Pad  | • Printer                 |
| Heath Care device | • Force feedback Joystick |

#### HCI Products (PC Host: 8M is requested)

- |                               |                        |
|-------------------------------|------------------------|
| WiFi-BT PCI                   | • WiFi-BT USB dongle   |
| WiFi-BT MiniPCI               | • Bluetooth Gateway/AP |
| Bluetooth embedded USB HUB    |                        |
| Bluetooth embeded Card Reader |                        |
| Personal Digital Assistants   |                        |

#### Video/Audio Products (Standalone device)

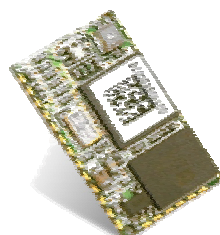
- |                   |                  |
|-------------------|------------------|
| Web Cam           | • Digital Camera |
| Remote Controller |                  |

### Ordering Information

HID Module (4M) P/N: 605-6837-010

HCI Module (8M) P/N: 605-6837-020

- Order base: 1200pcs / reel
- Suggestion: 6,000pcs ( 5 reels / Carton)



### Features

- CSR BlueCore2-External solution
- Bluetooth SIG specification 1.2
- Compliance with HID 1.0
- Built-in-test and auto-calibration routines
- UART, I<sup>2</sup>C, SPI, USB interfaces
- 12-pin PIO and 2-pin AIO for programming
- 0~4 dBm output power (Class 2)
- -80 dBm receiving sensitivity
- 2.7~3.6V Operating Voltage
- Up to 20 meters range (Open Space)
- 0°C~65°C Operating Temperature
- 21.2 x 13.2 mm, 6 Layers
- Support power management

### BQB Certifications

#### QPLN Ref no: BC0603\_MS6837\_SGS

MS-6837 : Bluetooth HID Module

<http://qualweb.bluetooth.org/Template2.cfm?LinkQualified=QualifiedProducts&Details=Yes&ProductID=1556>

#### QPLN Ref no: Q20104\_MSBTMS\_SGS

Bluetooth Mouse with MS-6837 module

<http://qualweb.bluetooth.org/Template2.cfm?LinkQualified=QualifiedProducts&Details=Yes&ProductID=1611>

### Block Diagram

