

## ***Bluetooth*<sup>®</sup> Module that is Bluetooth Low Energy - Smart Ready from LS Research**

### **FEATURES**

- *Bluetooth* 2.1+EDR and BLE 4.0
- Power Class 1.5
- Miniature Footprint: 7 mm x 7 mm
- Low Height Profile: 1.5 mm
- Certified with off Module Chip and Dipole Antennas
- Integrated Band-Pass Filter
- Worldwide Acceptance: FCC (USA), IC (Canada), and CE (Europe)
- Compact Design Based on Texas Instruments CC2564 Transceiver
- HCI UART Host Data Path Interface
- *Bluetooth* Advanced Audio Interfaces
- Low Power Operation Mode
- RoHS Compliant
- Streamlined Development with LSR Design Services

### **APPLICATIONS**

- Medical
  - Heart Rate Monitor, Blood Pressure Sensor, Blood Glucose Meter
- Thermometer
- Flood Alarm
- Heating Control
- Automatic Key Control
- Industrial Sensors
- Toys
- Entertainment Devices
- Mobile Accessoriesn
- All *Bluetooth* Wireless Applications)

### **DESCRIPTION**

TiWi-uB2 is a low-cost and low power consumption module which has all of the *Bluetooth* functionalities. The highly integrated module makes the use of *Bluetooth* headsets and other applications possible. The TiWi-uB2 module fully supports the dual mode *Bluetooth* and BLE operation, and the output power can support class 1.5. The SIP module provides UART interface / audio PCM interface for *Bluetooth*.

The TiWi-uB2 *Bluetooth* module is a high performance 2.4 GHz *Bluetooth* 2.1+EDR and *Bluetooth* Low Energy - Smart Ready radio in a cost effective, pre-certified footprint. This module provides a *Bluetooth* platform through the HCI transport layer.

More information on the product can be found on LSR's website:

- Product Overview: <http://www.lsr.com/wireless-products/tiwi-ub2>
- Data sheet: <http://www.lsr.com/downloads/products/330-0100.pdf>

More information on TI's wireless platform solutions for *Bluetooth* can be found on TI's Wireless Connectivity Wiki ([www.ti.com/connectivitywiki](http://www.ti.com/connectivitywiki)).



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