

**Radicom Research, Inc.**

671 E Brokaw Road, San Jose, CA 95112

Tel: 408-383-9006 | Fax: 408-383-9007

[www.radi.com](http://www.radi.com)**Vibration/Temperature sensor recorder system – RB8762C-SG series**

Radicom RB8762C-SG/RW8300E Sensor recorder System including vibration G sensor and/or temperature sensor tags and an internet gateway device uses as a complete long time monitoring and recording system from remote end as well as can be immediately accessed from a smart phone to add state of the art noncontact short distance or long range remote monitoring application. The RB8762C-SG Sensor tags runs under ultra low power and integrates a powerful ARM processor, RF, baseband, and 256KB embedded flash memory. Together with RW8300E-B3 internet gateway which is embedded a long range WiFi and LAN remote capability featuring a self-contained various long term monitoring/recording system. With smart phone app and easy software development environment for remote monitoring web configuration, the system can be easily adapted to a broad range application that previously did not feature wireless sensing capabilities. It is designed to support single or up to 4 multiple sensors system

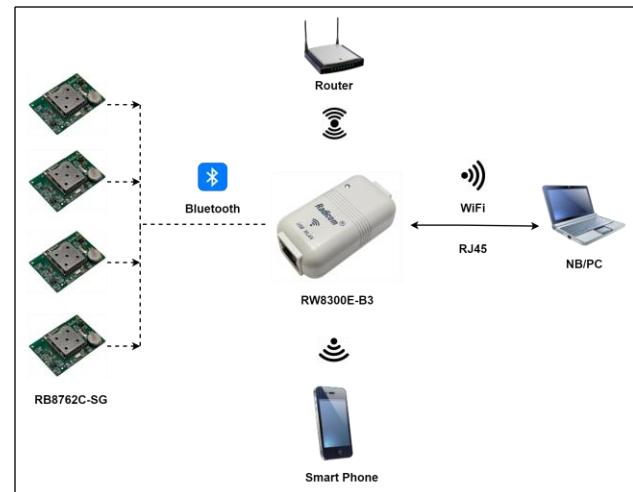
The RB8762C-SG tag is available in a standalone or PCBA which can be integrated into other system board easily

**Application:**

- Low energy monitoring
- Mechanical motion detection
- Long-distance temperature measurement
- Long-distance vibration detection
- Home assistant temperature recorder
- Home Security and Personal Fall Detection

**Sensor Features:**

- BT 5.3 core specification
- Various sensor measurement and long term recording transmitter
- Ultra low power consumption with intelligent PMU
- Support LE low duty directed advertising
- Support GAP, ATT/GATT
- Generic Applications for GAP Central, Peripheral, Observer and Broadcaster Roles
- CR2032 3V battery power input
- Operating temperature: -20°C ~ +70°C (Depends on temperature range of battery)
- Small size: 0.87" x 1.26" x 0.30" (22.0 x 32.0 x 7.7mm)
- High receiving sensitivity



RB8762C-SG sensor gateway

**Sensor Gateway features:**

- IEEE 802.11b/g/n compatible WLAN
- 100Mbps/10Mbps 10 based T
- WiFi to LAN and LAN to WiFi
- 20MHz and 40MHz bandwidth transmission
- Support WPS mode
- USB Ethernet adapter
- On-board antenna
- Built-in TCP/IP stack
- Support DHCP for LAN
- One Ethernet port
- Operating temperature: -30°C to +75°C
- Support IEEE 802.11i (WPA, WPA2, WEP). Security ~ Open, shared key, and pair-wise key authentication services
- support TLS mode

**Support:**

- Wireless sensor recorder applications
- Internet capability
- Security protection
- Real-time counters (RTC)
- Support OTA (Over-the-Air) programming
- Smart phone App
- Deep sleep mode to extend battery life
- FCC/IC/CE certified (WiFi dongle only)
- RoHS 3 compliant