

Products Services

loT Devices > loT Sensors >

Support Resources

Markets

Contact



BT510 Bluetooth 5 Long Range IP67 Multi-Sensor

3 Status: Recommended for New Design (RND)

New: Board reference to develop your applications with Zephyr RTOS on our BT510!

The Sentrius™ BT510 Sensor is a battery powered, Bluetooth 5 Long-Range integrated sensor platform enabling robust, reliable sensor data transfer in the harshest of environments.

The BT510 is powered by Laird Connectivity's field proven BL654 BLE module that integrates Nordic Semiconductor's nRF52840 silicon for feature rich application development in the Cortex M4F with 1MB Flash memory, which also enables integrated sensor data logging and storage. The ultra-low power sensor uses a single replaceable CR2477 coin cell battery, for a multi-year life and hassle free, long term maintenance.

The BT510 is a multi-sensor platform, with a magnetic reed switch sensor, temperature sensor, proximity sensor, and accelerometer. These multiple sensing capabilities support a massive array of use cases and applications, and its IP67 enclosure ensures robust protection for even the harshest of environments.

✓ Multi Sensor Platform – Integrated temperature sensor with proximity, accelerometer and magnetic reed switch sensors







Range, secure connections and BLE beaconing

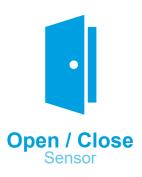
supporting smartphone app easily configures all settings of the platform

- ✓ IP67 Enclosure A rugged IP67 certified enclosure with simple twist / lock design for hassle free maintenance
- ✓ Replaceable Battery Ultra low power capabilities and replaceable CR2477 coin cell
- ✓ Worldwide Approvals Device Certified for FCC, IC, CE, MIC, RCM and Bluetooth SIG
- ✓ Future Proof OTA updates from mobile app or Cloud connectivity with Laird Connectivity's Sentrius™ IG60 IoT gateway
- ✓ Customization Custom branding, packaging, application development all available!





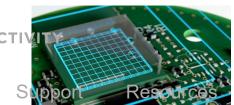


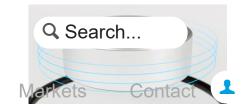












Best-in-Class Performance

Powered by our proven
BL654 module with BLE
Long Range and BLE
beaconing

nRF52840

Feature rich application development using Nordic Semiconductor's nRF52840

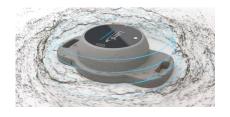
Replaceable Battery

Replaceable CR2477 coin cell battery for a multi-year, hassle-free life



Twist / Lock Design

Implements a simple twist /
lock design for hassle-free
maintenance



IP67 Certified

Rugged IP67 certified enclosure designed for the harshest environments



Small Footprint

A small, low-cost footprint to gather data across a wide-variety of applications





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Services

Support

Resources Markets

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How far can power-saving take your application?

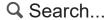
The Sentrius BT510 is a Bluetooth 5 Low Energy multi-sensor can last for months or years on its replaceable coin-cell battery. That battery life is dependent on lots of factors such as sleep time, ambient temperature, and more. Estimate how long your BT510 application can go on a single battery using our battery estimator tool.

Estimate Battery Life >

Get the Sentrius BT510 App









Products

Services

Support

Resources Markets Contact



Specifications

Antenna Type

Onboard PCB antenna

Chipset (Wireless)

Nordic nRF52840

Wireless Specification

Bluetooth v5

Accelerometer 3-axis MEMS – Programable motion and contact

detection

Battery CR2477 coin cell - replaceable

Certifications FCC, IC, CE, MIC, RCM, Bluetooth SIG

7 days of temperature data at 15 minute read **Data Logging**

intervals

Dimension (Height - mm) 19 mm

Dimension (Length - mm) 80 mm

Dimension (Width - mm) 51 mm

LED Status 1 LED, multi-state

Mounting Style Screw, zip-tie, or industrial velcro

Open / Close Contact Omni polar magnetoresistive sensor

Operating Temperature -20° - 60°C (limited by coin cell type)

Software Mobile App - Android & iOS - Configuration and/or

remote sensor display, OTA Firmware Update

Software IoT Gateway - Configuration and/or remote sensor

display to cloud (PENDING)