The Sentrius™ RS1xx Series is a **battery powered, long range integrated sensor platform** leveraging the benefits of LoRaWAN and Bluetooth Low Energy (BLE) connectivity. Its small, rugged form factor contains superior RF performance and flexibility with **precise temperature and humidity sensors**, and room for future expansions. At its core, the RS1xx series utilizes our field-proven and reliable RM1xx module hardware, providing LoRaWAN options in **868 and 915MHz** frequencies, plus BLE for local data display, configuration and troubleshooting. Based on the **Semtech SX1272** and **Nordic nRF51 silicon**, it offers a **LoRa range up to 10 miles** with a local 2.4 GHz connectivity option to smartphones and tablets. The RS1xx Series works with our Sentrius™ RG1xx Series of LoRa / multi-wireless gateways for simple out-of-the-box integration, and is compatible with 3rd party Cloud and LoRa network ecosystem partners.

**Features at a Glance**

**Develop a fully-owned private LoRa network to capture, route, and process IoT data for your application - choose from RM1xx modules, RS1xx finished sensors or RG1xx Gateways**

**Robust Durability with a Broad Sensor Array**

Robust enclosures provide a robust and resilient platform for recording and delivering sensor data from a range of harsh environments

**Comprehensive Security and Reliability**

Robust multi-layer security at each interface to safeguard your network at every level

**Broad Certification and Approvals**

Ready for deployment in multiple regulatory domains - FCC, IC, CE and Bluetooth SIG listing (all pending)

**Platform for Building Actionable IoT Intelligence**

Route sensor data to the Cloud with our simplified wireless connectivity deployment

**Personal Support for Your Implementation**

Our Tier-2 support and engineering teams work to help configure and deploy your application

**Application Areas**

- Cold Chain Management and Food Safety
- Agricultural Humidity and Environmental Monitoring
- Industrial Heating and Cooling

Interested in our RS1xx Sensor?
See more at connectivity.lairdtech.com/rs1xx-lora-sensors
The Sentrius™ RS1xx Series LoRa / BLE sensor features integrated antennas, temperature and humidity sensors in rugged enclosures.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>455-0002</td>
<td>Sentrius™ RS1xx Sensor - 868MHz Temp / Humidity including LoRa &amp; BLE</td>
</tr>
<tr>
<td>455-0004</td>
<td>Sentrius™ RS1xx Sensor - 868MHz Temp / Humidity including LoRa &amp; BLE – Bulk Packaging</td>
</tr>
<tr>
<td>455-0001</td>
<td>Sentrius™ RS1xx Sensor - 915MHz Temp / Humidity including LoRa &amp; BLE</td>
</tr>
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NEW: External temp sensor version available! Visit [https://connectivity.lairdtech.com/rs1xx-lora-sensors](https://connectivity.lairdtech.com/rs1xx-lora-sensors) for details.