



# Cloudleaf Sensor™

## Model S1.2 (Extended Sensor)

The Extended Sensor is an industrial grade sensor that tracks location, acceleration, shock, vibration and temperature, has a 5-7 year battery life and supports over-the-air (OTA) configuration and update.

A sophisticated, lightweight, battery-operated device, the Model S1.2 (Extended Sensor) is part of the full stack Cloudleaf Sensor Fabric™—providing asset location and sensory data, while collecting (end-node) information, such as environmental conditions in real-time.

Utilizing proven wireless technology standard (BLE) to communicate between zone sensors and gateways, all security features in the Bluetooth specifications can be enabled, including native 128-bit AES encryptions for end-to-end communications.

Each sensor carries a unique ID that links the tracked material. During the setup process, additional asset data like serial number, name or category can be assigned. Sensors can be provisioned in bulk via a .csv file upload and or individually using a mobile app.

Sensors can be mounted onto assets in a variety of ways to track them across indoor, outdoor and in-transit environments, providing a range of applications.

## Features

### Long Range



Up to 150 Ft. omni-directional line-of-sight (LOS) range

### Bidirectional Communication



Supports bidirectional communication and over-the-air (OTA) configuration and update

### Temperature Sensing



Configurable temperature sensing (event or time-based)

### Condition Sensing



Acceleration, vibration and shock read (event-based)

### Flexible Mounting



Multiple mounting options include adhesive, cable ties, screws, and lanyard

### Configurable Sampling



Configurable sample rates (2 seconds to minutes)

### Easy Provisioning



Quick mobile and/or bulk provisioning

## Specifications

- Dimensions: W29mm x L5mm x H14mm
- Operating Humidity: 0 to 95% RH
- acceleration (3-Axis), shock, vibration
- IP-65 compliant
- 7 year battery life (time-based sensing)
- Operating Temperature: -10 to 60°C
- Tracking capabilities: location, temperature,
- Temperature precision (+/-) 2%
- 5 year battery life (event-based sensing)
- Security: AES-128 CCM and HASH Lite encryption