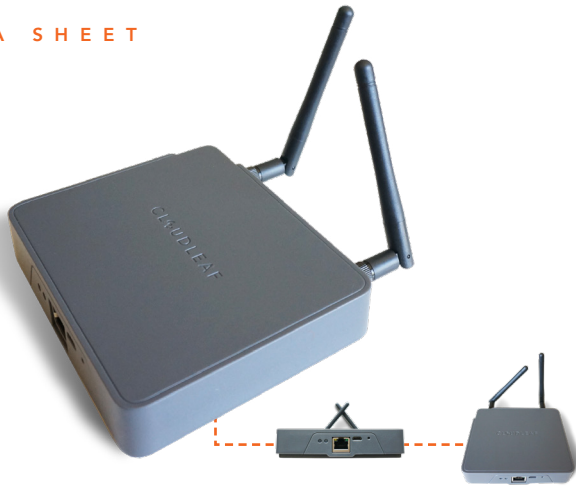




DATA SHEET



# Cloudleaf Zone Sensor™

## Model ZS1 (Powered)










A lightweight, powered gateway, for micro-location at critical workflow areas and zones. Zone Sensors enable micro location at critical workflow areas and zones. Zones can then be stitched together to create travel paths or workflows for a continuous record.

The programmable range (3 ft to 70 ft) of the ZS1 is used to create more precise location zones or can be used as a choke point to monitor entry/exit events from an area.

The ZS1 communicates with Sensors and relays that information to the Cloud Gateway™ using proven wireless technology standard (BLE), relaying asset location and meta-data in real time. All of the security features in the Bluetooth specifications, including native 128-bit AES encryptions for all end-to-end BLE-based communications can be enabled on the ZS1.

Multiple mounting options are available, from adhesive mounting to screw installations. The installation is quick and easy and provisioning of the ZS1 into the Cloudleaf Cloud Platform can be done through the web or via our mobile app. The ZS1 is designed to durably operate in industrial environments. The enclosure is resistant to water and dust and the ZS1 Sensor can operate from 0 to 60°C.

## Features

<p><b>Micro Location</b> </p> <p>Configured for micro location and critical workflow areas</p>	<p><b>Industrial Grade</b> </p> <p>Designed for durability: Water and Dust resistant</p>	<p><b>Flexible Mounting</b> </p> <p>Multiple mounting options: Adhesive mounting to Screw installations</p>	<p><b>Bidirectional Communication</b> </p> <p>Supports bidirectional communication and over-the-air (OTA) configuration and update</p>	<p><b>Coverage Area</b> </p> <p>25k Sq. ft. Area in Near-LOS industrial setting</p>
<p><b>Sensor Management</b> </p> <p>Tracks 250+ unique sensors/sec but manages thousands of Sensors in Field-of-View (FoV)</p>	<p><b>Mesh &amp; Handoff</b> </p> <p>Meshing and handoff capabilities with other Zone Sensors and Gateways</p>	<p><b>Location Framework</b> </p> <p>DSP Filtering, Channelization, Motion Sensing</p>	<p><b>Network Optimization</b> </p> <p>Event and time based sensing</p>	

## Specifications

- Dimensions: W99mm x L118mm x H25mm
- Weight: 150g (5.29oz)
- Operating Temperature: 0° to 60°C
- Operating Humidity: 0 to 95% RH
- Typical power consumption < 5W (DC 5V @ 2A)
- Multiple BLE Radios
- Focus beam antenna support: 18, 16, 19 Degrees
- Precision location up-to 2m
- Programmable range (3ft to 70 ft)
- IP-51 compliant
- WiFi 802.11 a/b/g/n (2.4-2.5 GHz, 5.15-5.95GHz)
- Ethernet supporting PoE (add-on)
- WPA/WPA2/WEP security
- Native 128-bit AES encryptions, SSL/TLS for Cloud Communication