



xBeaconSense

The world's first multi-sensor BLE beacon that combines multiple data sensors with RFID technology to power a wide variety of IoT applications.

The xBeaconSense is designed to enable scalable deployments of BLE sensor beacons that can run on small batteries for many years and communicate with NCS's leading portfolio of IoT gateways (xBeacon2 and xBeacon3) to provide seamless Internet connectivity and remote monitoring capabilities. Sensor included on board: temperature, vibration, accelerometer, magnetic, real time clock, and light.

Product Highlights

- + Ease of Maintenance
- + Multiple mounting options available
- + Configurable transmit power and receive sensitivity
- + Flexible form factors and power options
- + Seamless integration with PayX gateways
- + White-label housings
- + On-premise or Cloud Data Analytics
- + Extended battery-life (battery powered models)
- + Plug-n-Play Deployment
- + Integrated enterprise security (AES, SHA, ECC)
- + Cloud connectivity (Wi-Fi, Ethernet, Mesh)
- + Sleek industrial design
- + Supports multiple enterprise applications

Industries

Hospitality

- + Guest Dwell Time & Analytics
- + Effortless Check-in
- + New & Return Visitors Analytics
- + Footpath & Way Finding
- + Branded, Private Wi-Fi
- + Customized Messaging & On-property Offerings

Retail

- + In-Store Analytics
- + Footpath & Way Finding
- + Private Wi-Fi
- + Proximity Marketing & Discount Offers
- + Sales Conversion
- + Mobile Payments

Brands

- + Branded, Private Wi-Fi
- + Proximity Marketing

Marketing Agencies

- + Capitalize on New Technologies to Win Business
- + Contextual Offers
- + Granular Insight to Individuals & their Shopping Habits
- + Possess the Ability to Market to the Customer while in the Store

Healthcare

- + High Value Asset Tracking
- + Footpath & Way Finding

Out-Of-Home

- + Trigger Personalized Messages on Digital Signature

Logistics

- + Track Valuable Assets Anywhere in the World
- + Measure Temperature, Humidity, Lighting, Barometer Speed, Elevation

Technical Specifications

DIMENSIONS 15mm x 20mm (.59 x .79 in)

WEIGHT 0.32 oz. / 9 g (USB)
2.9 oz. / 80 g (with 2 AA Batteries)

PROCESSOR ARM Cortex

OPERATING SYSTEM n/a

REMOVABLE STORAGE n/a

WI-FI FEATURES n/a

BLUETOOTH LE FEATURES Apple's iBeacon
Google's Eddystone
Custom Profile
Peripheral & Central Mode

BLUETOOTH CLASSIC FEATURES n/a

ENVIRONMENT Operating Temperature:
32°F to 104°F (0°C to 40°C)
Humidity: 5 to 95% Non-Condensing

RADIO FREQUENCIES Bluetooth LE: 2.4GHz

OUTPUT POWER Bluetooth LE: Up to 0dBm (Rx -93dBm)

RANGE Bluetooth LE (LOS): 30-100m

POWER SUPPLY Battery: AA or Lithium coin cell

EXTERNAL INTERFACES UART
NFC

OPTIONAL MOUNTING OPTIONS Adjustable Mounting Bracket
Ceiling/Wall Mounting Plate
Weatherproof Package

APPLICATIONS Movement Sensing
Vibration Sensing
Remote Temperature Sensing
Light Sensing
Magnetic Sensing
IoT applications

Width
15 mm (.59 in)



Height
20 mm (.79 in)