



**CARGO BEACON**

EverTag SL Mesh

## Sound & Light Mesh

Our tag features dedicated sound and light sensors to ensure comfort and safety in settings such as homes, offices, public spaces, healthcare, and more

By collecting sound, light, and temperature data, the [EverTag SL Mesh](#) enables industries to make fact-based decisions using sensor information. This lays the groundwork for future AI integration to monitor and improve environments —boosting efficiency, comfort, and safety across various settings.

- **Configurable sample intervals:** Collect ambient sound and light with data collection configurable in minute intervals.
- **Tampering Detection:** Alerts for unauthorized access.
- **Power Efficiency:** Low power consumption extends battery life.
- **Easy Installation** Setup via NFC and Wirepas API for quick deployment.
- **Mounting:** Attaches easily inside an EUR-pallet and more.
- **Nordicsemi nRF52840:** High-end chipset for superior network performance, range up to 200m in anchor mode.
- **Customizable:** Custom logos, colors, and firmware with a scratch-resistant overlay.



FEAUTRES - article 230	010	012	015	100
Outdoor and indoor use	-	-	•	-
Temperature	-	-	•	-
Utilization data	-	-	•	-
Replaceable batteries	-	-	•	-
Up to +10 years battery	-	-	•	-
LED and button support	-	-	•	-
±0.1°C temp. accuracy	-	-	•	-
Sound Sensor	-	-	•	-
Light Sensor	-	-	•	-
Advanced digital I/O	-	-	-	•
External Power	-	-	-	•
Low Latency BLE Scanning	-	-	-	•

**Applications:** Ideal for businesses in offices, manufacturing facilities, retail stores, hotels, hospitals, schools, elderly care facilities, transportation hubs, entertainment venues, data centers, and smart buildings to optimize environments, improve efficiency, and enable fact-based, AI-driven decisions.

Sounds interesting? Learn more at [cargobeacon.com](https://cargobeacon.com)

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# Join the asset tracking revolution!

Never before has it been so easy to track important assets indoors, outdoors and across premises indoors and outdoors. Wirepas mesh is an industrial IoT infrastructure that is [deployed in no-time](#). This infrastructure lets you use tags to track and monitor tools and equipment inside and outside your premises. [5m accuracy](#), every [5 minutes](#) without maintenance for more than [5 years](#).

Additionally, we offer sophisticated mobile apps for both [iOS](#) and [Android](#), Supporting NFC and BLE deployment for seamless and efficient setup and management.

## Solution overview

### MESH LOCATION



A system consists of a mesh gateway and a number of tags - either configured as anchors or asset tags. Anchors are attached to walls and automatically forms an industrial mesh network. Asset tags regularly use the mesh network to automatically provide its location.

Perfect for [large scale](#) asset tracking in industrial yards and [facilities](#).

### PROXIMITY LOCATION



The tag is configured to also advertise its presence using BLE-beaconing.

This makes the tag readable also for stationary gateways, mobile gateways and smartphone apps.

Perfect complement for [low-latency notifications](#) and [global tracking](#) outside the mesh-network.

## Technical specifications

### GENERAL

**Battery Life** 2 pcs replaceable Lithium coin cell CR2477. 10 years battery life (typical operating conditions)

**Material** Polycarbonate + PBT

**Operating Environment** -20 to +70 °C, IP68

**Approvals** CE, FCC, IC, CMIT, MIC, KC

**Mounting** Permanent mount with Screw, lash or tape. Semi-permanent with tag holder in plastics or metal.

### ACCELEROMETER AND GYROSCOPE

**Acceleration range** ±2g, ±4g, ±8g, ±16g

**Resolution** For ±2g is 0.976 mg/digit, and noise density 287 µg/√Hz at ±8g.

### HUMAN INTERFACE

**Push button** For alert notifications and first power-up

**LED** Red

### WIRELESS-INTERFACE

**2.4GHZ** Wirepas mesh v5.3  
+8dBm output power

**NFC** ISO/IEC 14443A

**CHIP** Nordic nRF52840  
1024kB flash/256kb RAM

### TEMPERATURE SENSOR

**Resolution** 0,5°C

**Accuracy** ±1,5°C at 25°C

### SOUND SENSOR

**Microphone** MEMS, Digital PDM

**Frequency Range** 20 Hz – 20 kHz

**Sensitivity** -26 dB ±1 dB @ 94 dB SPL

### LIGHT SENSOR

**Sensor** Digital Ambient Light Sensor

**Dynamic Range** 18,000,000:1, Low Lux performance down to 0.01 lux

**Resolution** Up to 20-bit

### DIMENSIONS

**Width:** 65mm

**Height:** 15mm

**Depth:** 40mm



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