



**CARGO BEACON**

**EverTag I/O**

## Industrial automation I/O

Our EverTag with advanced digital input and output capabilities, enabling controlled interactions and real-time data collection for improved operational efficiency.

EverTag I/O, the next generation of tracking, offers multipurpose I/O connectivity and power supply options. This tag opens new possibilities for industrial automation, building management, and more.

- **Advanced Digital I/O Connectivity:** Enables input and output control through Wirepas. Inputs can connect to PLCs, external alarms, and other devices, while outputs can control external systems, supporting open/closed circuits and digital active high signals up to 24V.
- **Power Supply Flexibility:** Can be powered with a 5-48V input, ensuring continuous operation. The built-in battery serves as a backup during power loss.
- **Low Latency BLE Scanning:** When powered, it allows low latency BLE scanning for iBeacon advertisements, complementing Wirepas technology and enabling presence detection in seconds instead of minutes
- **Worker Presence Detection:** Acts as a scanning interface for detecting worker presence in buildings and other environments.
- **Tampering Detection:** Alerts for unauthorized access.
- **Easy Installation:** Setup via NFC and Wirepas API for quick deployment.
- **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.

**Applications:** EverTag I/O improves tracking and control across various industries. Ideal for industrial automation, building management, worker presence detection, and smart infrastructure projects, ensuring efficiency and safety.



### FEAUTRES - article 230

	010	012	013	100
Outdoor and indoor use	•	•	•	•
Temperature	•	•	•	•
Utilization data	•	•	•	•
Replaceable batteries	•	•	•	•
Up to +10 years battery*	•	•	•	•
LED and button support	•	•	•	•
±0.1°C temp. accuracy		•		
Oxygen sensor			•	
Advanced digital I/O				•
External Power				•

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

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# Scalable industrial control and BLE scanning

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 workers, assets and equipment inside and outside your premises. **5m accuracy**, every **5 minutes** without maintenance for more than **5 years**.

## Solution overview

EverTag I/O Mesh enhances Wirepas with advanced I/O connectivity and low latency BLE scanning. It supports device inputs (e.g., PLCs, alarms) and outputs for controlling systems, handling signals up to 24V. Powered by battery or wired (5-24V), with battery backup, it enables rapid BLE scanning for iBeacon presence detection. Ideal for industrial automation, building management, and smart infrastructure.

### 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 advertise its presence using BLE-beaconing. This makes the tag readable by stationary gateways, mobile gateways, and smartphone apps. Additionally, it can be configured as a BLE scanner to detect BLE tags passing by or the location of BLE tags placed on assets or workers, both inside and outside the mesh network. Ideal for **low-latency** notifications and global tracking.

## Technical specifications

### GENERAL

**Battery Life** 2 pcs replaceable Lithium coin cell CR2477. 8 years battery life (typical operating conditions)

**Material** Polypropylene

**Operating Environment** -20 to +70 °C, IP54

**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

### CONNECTOR INTERFACE

**Connector type** Phoenix, 6 pin Combicon DFMC included with the tag.

**Pinout**  
1-2: Optional power DC 5-24V  
3-4: Digital input. Detection of closed circuit and signal levels 5-24V.  
5-6: Digital output. COMS Open drain for loads 5-24V. Max 1w.

### DIMENSIONS

**Width:** 65mm

**Height:** 15mm

**Depth:** 40mm



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