

Active UHF Beacon Tag i-B2 W–Wristband Tag



This IDEN TEC SOLUTIONS' tag is intended for tracking personnel in hazardous environments such as chemical plants, petrol or gas stocks and oil rigs. It is an ideal tool for safety of personnel.

Using advanced UHF radio frequency technology, i-B2 W tags send data at distances of up to 30 meters (90 feet) to either a mobile (handheld) or fixed reader (interrogator).

Due to the ultra-low power consumption and configurable ping rate (one second to four minutes), the i-B2 W tag can effectively operate maintenance-free for many years.

The i-B2 W tag is the most economical choice for basic long-range technology and is ideal for tracking personnel.

Features

- 30 m (90 ft) read range
- Long battery lifetime
- Customizable ping rate
- UHF operating frequencies
- Non-line-of-sight data transmission
- Automatic transmission
- Cost-effective

Benefits

Allows the longest read-range for identification and tracking using beacon technology.

Delivers long time maintenance-free operation, without battery replacement. The battery lifetime depends mainly on the ping rate, which is configurable.

Ping-Rate	Durability (Years)
1s	2
2s	4
3s	6

To optimize battery consumption, dynamic appearance and RF band use.

Tags are available for both standard North American and European ISM band frequencies.

Allows tags to be identified without the need of visual contact.

Tags do not have to be "woken"—they transmit automatically.

Creates the economical conditions for the usage of active high performance RFID technology to track and trace objects.

IDEN TEC SOLUTIONS

IDEN TEC SOLUTIONS is the global leader in active wireless tracking solutions. A commitment to developing ground-breaking, industry-specific tracking solutions featuring proprietary patented technology has placed IDEN TEC SOLUTIONS in the international forefront as a technology provider for innovation and as a complete solution provider in the automotive, oil, gas and mining industries.

Utilized by the world's leading organizations and system integrators, IDEN TEC SOLUTIONS' award-winning technology portfolio offers robust, highly effective tracking solutions that manage critical process and optimize supply chain flow. Privately held since 1999, IDEN TEC SOLUTIONS has provided asset management solutions and support to a variety of organizations, including an impressive roster of Fortune 500 clients such as Volkswagen, Audi, Deutsche Post and General Electric. Headquartered in Lustenau, Austria, the company's North American headquarters are located in Dallas, Texas, with customer service centers in Hong Kong, Germany, Australia and Norway. For more information, please visit: www.identecsolutions.com.

Information in this document is subject to change without notice and becomes contractual only after written confirmation by IDEN TEC SOLUTIONS.

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment.

"IDEN TEC SOLUTIONS", "Intelligent Long Range", "ILR", "i-LINKS", "i-Q", "i-D", "i-B", "i-CARD", "i-PORT", "Solutions. It's in our name.", "Smarten up your assets." and the stylized "i" are trademarks or registered trademarks of IDEN TEC SOLUTIONS, Inc. and/or IDEN TEC SOLUTIONS AG.

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Technical Data

Operating Data

Read range	Up to 30 m (90 ft) in free air* * The communication range depends on the antenna type, the antenna cable runs and the environmental conditions.
Operating frequency	868 MHz (EU) or 915 MHz (NA) ISM band
Operation mode	Transmits a pre-programmed data string in regular intervals
Repetition rate (ping rate)	0,5 – 60 seconds, adjustable in steps of 0,5 seconds
Transmit power	< 1 mW
Compatibility	i-PORT 4B, i-PORT MB, i-CARD CF B

Electrical Data

Power supply	Lithium battery (not replaceable)
Battery lifetime expectancy	4 years @ 2 seconds ping rate

Configuration

The transponder is configured using the i-B2 PROG at a distance of max. 5 cm.	
Ping rate	Configurable from 0.5 to 60 seconds in steps of 0.5 seconds
User data	9 Bytes (user definable)

Environmental Conditions

Operating temperature	-30 to +70 °C (-22 to +158 °F)
Shock	50 G, 3 times acc. DIN IEC 68-2-27 several times onto concrete floor from 1 m height
Vibration	3 G, 20 sine wave cycles, 5 to 150 Hz, DIN IEC 68-2-6 5 G, noise 5 to 1.000 Hz, 30 minutes DIN IEC 68-2-64

Mechanical Data

Dimensions	43 × 38.5 × 14.5 mm (1.7 × 1.5 × 0.57 inches)
Casing	Plastics
Mass	40 g
Protection class	IP 65

Certifications

EMC	CE (EN 300 220-1, -3; ETSI EN 301 489-1, -3), FCC Part 15 (US), Industry Canada
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