

Active UHF Beacon Tag i-B2M Microtag



The Microtag is part of the **beacon** generation (i-B) of IDEN TEC SOLUTIONS' Intelligent Long Range® (ILR®) active RFID tags. Built on IDEN TEC SOLUTIONS' patented high-performance technology, the Microtag provides impressive long-range capabilities for wireless applications that require the benefits provided by beacon tags. Static data is written on an Microtag and is continuously sent at a programmable interval (ping rate) without being requested by a reader.

The i-B series offers an attractive price for continuous tag collection in specific scenarios such as:

- Access control
- Tracking of Vehicles and Containers
- Online inventory
- Localization of assets or personnel at specific areas (i.e. gates, dock doors)

Using advanced UHF radio frequency technology, Microtags send data at distances of up to 70 meters (230 feet). There are mobile (handhelds) or fixed solutions (interrogators) available.

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

The Microtag is the most economical choice for basic long-range technology and is ideal for tracking mobile assets in more stable, predictable environments.

Features

- Up to 70 meter read range
- Long battery lifetime
- UHF operating frequencies
- Non-line-of-sight data transmission
- Automatic transmission
- Industrial housing
- Customizable ping rate
- Low cost

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 on the ping rate, which is configurable.

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

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.

Durable in demanding environments.

Ensures that the frequency band is not busy.

Economical choice for tracking assets with active RFID technology.

IDEN TEC SOLUTIONS

IDEN TEC SOLUTIONS is a leading global supplier of innovative RFID systems (Radio Frequency Identification) with communication ranges of up to 100 m.

With its unique Intelligent Long Range® (ILR®) technology, IDEN TEC SOLUTIONS offers innovative and economical solutions for automated data gathering, identification, tracking and localization of objects.

ILR® technology makes it possible to ensure that

- the right goods,
- in the right amounts,
- in the right condition,
- with the right information
- are located at the right place
- at the right time,

leading to increased efficiency and quality improvements in Production, Logistics and Supply Chain Management. To learn more about how ILR® technology can increase efficiency of your business, contact IDEN TEC SOLUTIONS or visit our website at www.identecsolutions.com.

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Caution:
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Technical Specifications

Performance

Read range to i-PORT R2/MB	Up to 70 m (230 ft) (free air)
Read range to i-CARD R2/CF	Up to 20 m (66 ft) (free air)
Operating frequency	916,5 MHz (US)
Operation	Transmits in regular intervals a pre-programmed data string
Repetition rate (ping rate)	0.5 – 60 seconds in 0.5 second steps
Transmit power	<1 mW
Certification	FCC Part 15

Electrical

Power source	Lithium battery (not replaceable)
Expected battery life	4 Years @ 2 second intervals

Data

Programmability	One time
Programming and activation	Wireless by proximity device over a distance of maximum 5 cm
Reprogrammable	No
Deactivation	No
Data size	9 bytes (user definable)
Identification code	32 bit fixed ID

Environmental

Operating temperature	-30°C to +70°C (-22°F to +158°F)
Shock	50 G, 3 times DIN IEC 68-2-27 Multiple drops to concrete from 1 m (3 ft)
Vibration	3 G, 20 sine wave cycles, 5 Hz to 150 Hz, DIN IEC 68-2-6 5 G, noise 5 Hz to 1000 Hz, 30 minutes DIN IEC 68-2-64

Physical

Dimensions	56 mm x 30 mm x 12 mm (2.20 in. x 1.18 in. x 0.47 in.)
Case Material	Plastic (ASA Luran® S)
Mass	19 grams (0,67 ounces)
Enclosure rating	IP 65 — Protected against dust and low-pressure jets of water
Colour	light-grey

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