



IDEN TEC SOLUTIONS' i-B350 R sensors are designed to be exceptionally flexible, easy to implement, and cost effective. For added value, the beacon sensors can be configured to transmit their unique ID information at predetermined broadcast intervals.

The IDEN TEC SOLUTIONS' i-B350 R series offers significant value and functionality for continuous monitoring and optimisation of logistics with the supply chain.

The main applications are:

- Access control
- Tracking of vehicles and containers
- Online inventory
- Identification of assets in specific areas

Due to the ultra-low power consumption and configurable ping rate (one second to five minutes), the i-B350 R sensor can effectively operate maintenance-free for many years.

Highly accurate, the i-B350 R is the ideal tool for tracking vehicles and assets. Value-driven, it is the best choice for basic long-range technology for tracking and tracing of mobile objects.

Using advanced UHF radio frequency technology, the i-B350 R sensors transmit data to distances of up to 500 meters (1600 feet) to either a portable (handheld) or fixed reader (interrogator).

BENEFITS

- **500 meter (1600 ft) read range.**
Allows the longest read-range for identification and tracking using beacon technology.
- **Customizable ping rate.**
To optimize battery consumption, dynamic appearance and RF band use.
- **UHF operating frequencies.**
Sensors are available for both standard North American and European frequencies.
- **Non-line-of-sight data transmission.**
Allows tags to be identified without the need of visual contact.
- **Automatic transmission.**
Sensors do not have to be "woken" — they transmit automatically.
- **Cost effective.**
Creates the economical conditions for the usage of active high performance RFID technology to track and trace objects.
- **Rugged housing.**
Durable in the harshest environments. For heavy duty usage.

FEATURES

- 500 m (1600 ft) read range
- Customizable ping rate
- UHF operating frequencies
- Non-line-of-sight data transmission
- Automatic transmission
- Cost-effective
- Rugged housing



i-B350 R SENSOR



IDEN TEC SOLUTIONS delivers innovative wireless sensor technology and systems that are helping transform the way businesses manage industrial processes and safeguard lives.

Committed to developing industry-leading, low power and long-range sensor based solutions, IDEN TEC SOLUTIONS' SensorSMART networks have been setting the industry standard since 1999.

Currently deployed on every continent throughout the globe in the Ports & Terminals, Oil & Gas, Tunnel & Mining, and Government & Defense industries as well as sought out by the world's leading system integrators and governments; IDEN TEC SOLUTIONS patented technology is helping to optimize productivity in some of the continent's most challenging situations. Robust, flexible and powerful IDEN TEC SOLUTIONS technology delivers when others cannot.

IDEN TEC SOLUTIONS is privately held, with its corporate office located in Lustenau, Austria, and North American headquarters in Dallas, Texas, along with service centers in Germany, Australia and Norway. For more information, please visit www.identecsolutions.com.

WARNING: Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment. Contents subject to change without notice.

TECHNICAL SPECIFICATIONS

Communication Broadcast 350

Operation Mode	Transmits Sensor ID and user data in pre-defined interval up to 500m (1600ft)*
Read Range	i-PORT M350, i-CARD CF 350 and i-PORT 4-350
Compatibility	868 MHz (EU) or 920 MHz (NA)
Operating Frequency	<1mW
Transmit Power	* The communication range depends on the antenna type, the antenna cable runs and the environmental conditions.

Data

Identification Code	48 bit fixed ID
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Configuration

Device	i-PROG M350L
Ping Rate	Configurable from 0.5 to 300 seconds in steps of 0.5 seconds
Broadcast User Data	Up to 50 Bytes

Electrical

Power Source	Lithium Battery (non-replaceable)
Battery Monitoring	Yes

Environmental Conditions

Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Humidity	10% to 95% relative humidity @ 30°C
Shock	Multiple drops to concrete from 1m (3ft), 3 times DIN IEC 68-2-27
Vibrations	3G, 20 sine wave cycles, 5 to 150 Hz, DIN IEC 68-2-6 5G, noise 5 to 1.000 Hz, 30 minutes, DIN IEC 68-2-64

Standard/Certification

Europe	CE (EN 300 220-1, -3; EN 301 489-1,-3; EN 60950)
North America	FCC Part 15 (US); Industry Canada

Mechanical Data

Dimensions	139 x 38 x 27 mm (5.47 x 1.48 x 1.04 inches)
Enclosure Material	Plastic
Enclosure Rating	IP 67
Weight	50 grams (1.75 ounces)



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