



i-Q350L RTLS RTLS TAG



The RTLS system is the newest development in IDEN TEC SOLUTIONS' SensorSMART interrogators. SensorSMART provides highly accurate, real-time data collection with minimal human intervention.

The very long communication range of up to 500 m (1600 ft) allows automated identification, tracking and tracing of assets and people in areas as large as a steel construction workshop without human intervention.

The new RTLS system allows localization of tags down to a few metres.

With the fast localization speed, the informa-

tion not only about the identity bus also about the exact position is truly real-time.

The i-Q350L RTLS in conjunction with the i-SAT 300 RTLS reference generator allows localization down to a few metres. The high rate of transmission allows communication even with rapidly-moving Tags.

BENEFITS

Up to 300 m (1000 ft) localization range
Allows automated localization of vehicles, assets and people without human intervention.

Tag operates in beacon mode - In this configurable operation mode the tag can automatically transmit data over a range of up to 500 m (1600 ft).

Tag operates in response mode - In this standard operation mode data can be written onto or read from the tag over a range of up to 250 m (800 ft).

360° LED Provides visual identification of an addressed tag ("pick by light").

Pushbutton - Enables manual trigger of functions.

10,000 Bytes memory - Stores user and process information as well as temperature data onto the tag to provide real-time tracking and tracing. Can be used as an electronic packing slip or as an electronic shop traveler.

Long battery lifetime- Delivers long time maintenance-free operation, without battery replacement.

FEATURES

- Up to 300 m (1000 ft) localization range
- Tag operates in beacon mode
- Tag operates in response mode
- 360° LED
- Pushbutton
- 10,000 Bytes memory
- Long battery lifetime
- ISM and UHF operating frequencies
- Communication on demand only
- Industrial housing

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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.



i-Q350L RTLS RTLS TAG

IDENTEC SOLUTIONS delivers innovative wireless sensor technology and systems that are helping transform the way business manages industrial processes and safeguards lives.

Committed to developing industry-leading, low power and long-range sensor based solutions, IDENTEC SOLUTIONS' SensorSMART networks have been setting the industry standard since 1999. Currently deployed on every continent throughout the globe in the Marine, Intermodal & Logistics, Oil, Gas & Mining, Construction industries as well as sought out by the world's leading system integrators and governments; IDENTEC SOLUTIONS patented technology is helping to optimize productivity in some of the continent's most challenging situations. Robust, flexible and powerful IDENTEC SOLUTIONS technology delivers when others cannot.

IDENTEC 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

Operating Localization Communication	(ILR, 2400 – 2485 MHz ISM Band)
Localization range	Up to 300 m (1000 ft) in free air with line of sight
Maximum transmission power	100 mW EIRP or local regulation
Standards/Certification	ISO 24730 part 5, FCC part 15, EN 300 328 (EU)
Compatibility	i-PORT M 350 RTLS, i-SAT 300 RTLS

Communication Data Long-Range RFID (ILR, Response Technology)	
Multiple tag handling	Up to 2,000 tags in the read zone
Read/write range response mode	Up to 250 m (800 feet), free air*
Data rate response	19.2 to 115.2 kbits/s

Communication Data Long-Range RFID (ILR, Beacon Technology)	
Read range broadcast	Up to 500 m (1600 feet) free air*
Operation mode	Transmits tag information in at regular intervals
Repetition rate (ping rate)	0,5 – 300 seconds, adjustable in steps of 0,5 seconds
Data rate broadcast	115.2 kbits/s

Communication Data Inductive Loop (Marker)	
Read range	Up to several meters
Operating frequency	125 kHz (world-wide approved)
Operation mode	Receives marker ID number and transmits marker information several times

Data	
Data retention	>10 years without power
Write cycles	100,000 writes to a tag
Memory size	10,000 Bytes user definable
Identification code	48 bit fixed ID

Electrical	
Power source	Replaceable Lithium battery
Battery monitoring	Yes
Expected battery life	3 Years @ 1 localization every minute

Environmental	
Operating temperature	-40 °C to +85 °C (-40 °F to +185 °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	
Case Material	Plastic
Enclosure rating	IP 65

*The communication range depends on the antenna type, the antenna cable runs and the environmental conditions.

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