

i-SAT 300 RTLS RTLS REFERENCE NODE



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

The new RTLS system allows localization of tags down to a few metres. This new series of SensorSMART products is the next step forward in wireless applications such as:

- Identification
- Tracking and tracing and
- Localization of assets or personnel.

With the fast localization speed, the information not only about the identity but also about the exact position is truly real-time.

The i-SAT 300 RTLS operates in this series of innovative RTLS as one of several reference point for the localization. It operates stand-alone only with power supply.

BENEFITS

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

400 localizations per minute - This fast speed provides real-time information.

2.4 GHz ISM operating frequency - ISM operating frequency For world-wide operation.

Industrial housing - Durable in demanding environments.

FEATURES

- Up to 300 m (1000 ft) localization range
- 400 localizations per minute
- 2.4 GHz ISM operating frequency
- Industrial housing

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

Copyright © 2010 by IDEN-TEC SOLUTIONS. All rights reserved. Version 1.8 4/12/2010

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-SAT 300 RTLS RTLS REFERENCE NODE

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 (2400 – 2485 MHz ISM Band)

Maximum transmission power	100 mW EIRP or local regulation
Standards/Certification	ISO 24730 part 5 FCC part 15, EN 300 328 (EU) i-Q350 RTLS series tags
Compatibility	

Performance

Localization rate	Up to 400 tags per min per zone
Operation	The i-SAT 300 is a reference point for the ILR RTLS

Antennas

Localization	1 SMA connector for external antenna at 2.4 GHz
--------------	---

Interfaces

Data interface master/host	i-BUS (RS422)
Data interface slave	i-BUS (RS422)
Status display	4 LEDs (RTL, RUN, BUS, ERR)

Electrical

Power source	10 – 30 VDC
Power consumption	< 2 W

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
Humidity	90 %, non-condensing

Physical

Dimensions	97 × 67 × 97 mm (3.8 × 2.6 × 3.8 in.) 153 × 67 × 97 mm (6.0 × 2.6 × 3.8 in.) incl. cover
Case Material	Plastic
Mass	150 grams (5.29 ounces)
Enclosure rating	IP 64 with cover

CONTACT US

EUROPE

+43 5577 87387-0
sales@identecsolutions.com

NORTH AMERICA

1-866-402-4211 (toll free)
sales@identecsolutions.com

HEAD OFFICE

IDENTEC SOLUTIONS AG
Millennium Park 2
6890 Lustenau
Austria
Tel. +43 5577 87387 0
Fax +49 5577 87387 15

GERMANY

IDENTEC SOLUTIONS
DEUTSCHLAND GMBH
Hertzstrasse 10
69469 Weinheim
Germany
Tel.: +49 (0)6201 9957-0
Fax: +49 (0)6201 9957-99

USA

IDENTEC SOLUTIONS, INC.
Liberty Plaza II, Suite 375
5057 Keller Springs Rd,
Addison, Texas 75001
USA
Tel: (972) 535 4144
Fax: (469) 424-0404

NORWAY

IDENTEC SOLUTIONS AS
Kartheia 3
4626 Kristiansand
Norway
Tel. +47 38 00 35 30
Fax +47 38 00 35 31

AUSTRALIA

IDENTEC SOLUTIONS
AUSTRALIA AND NEW
ZEALAND P/L
Riverview Business Park 72
Maribyrnong St, Footscray,
3011 Australia
Tel. +61 3 9396 8900