



i-CARD CF 350 MOBILE READER



The i-CARD CF-350 is an interrogator for SensorSMART tags in a CF card format. It is the newest development in IDEN TEC SOLUTIONS' product range for mobile RFID equipment.

SensorSMART provides highly accurate, real-time data collection with minimal human intervention in wireless applications such as:

- identification
- tracking and tracing and
- localization of assets or personnel.

Using advanced UHF radio frequency technology, the i-CARD CF 350 transmits and receives data at distances of up to 500 meters (1600 ft). The unique, highly sophisticated anti-collision algorithm guarantees identification of thousands of Tags located concurrently within the interrogator's read zone. The high rate of transmission allows communication even with rapidly-moving Tags.

Combined with other IDEN TEC SOLUTIONS system components, the i-CARD CF 350 offers a leading-edge wireless, automated data collection tool that is easily integrated into advanced information systems.

When it is incorporated into the CF Card slot of a laptop, handheld or mobile computer, the i-CARD CF 350 allows the seamless integration of i-Q350 information into industry-standard tools. The result is real-time information, where and whenever it is needed. The i-CARD CF 350 comes with a software library package to allow quick development of user applications. Drivers for several different operating systems like Windows CE/9x/NT/2000/XP and Windows 7 are included.

The built-in software features allow various functions such as:

- communication with ILR 350 tags
- data processing
- firmware update from the CF interface

The feature-rich i-CARD CF, combined with other IDEN TEC SOLUTIONS SensorSMART-system components, offers a leading-edge wireless, automated data-collection tool that is easily integrated into advanced information systems.

BENEFITS

Communication with response tags- The i-CARD CF 350 offers the ability to adjust the read/write range with i-Q350 tags from a range of < 1 meter (3 feet) up to 250 m (800 ft).

Collecting data from beacon tags - The i-CARD CF 350 can detect the broadcast messages of i-Q350 and i-B350 tags from a distance of up to 500 m (1600 ft).

2000-tag simultaneous identification - Large numbers of tags can be identified virtually simultaneously.

Drivers for different operating systems
Flexible and hardware-independent use

CF interface - Integrates easily into existing handheld or mobile computers

Communicates with all i-Q350 and i-B350 tags

European and North American versions

FEATURES

- Communication with response tags
- Collecting data from beacon tags
- 2000-tag simultaneous identification
- Drivers for different operating systems
- CF interface
- Communicates with all i-Q350 and i-B350 tags
- European and North American versions

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.

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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

Performance

Response read/write range	Up to 250 m (800 feet) @ free air*
Broadcast read range	Up to 500 m (1600 ft) @ free air*
Simultaneous identification	Up to 2000 tags
Compatibility	all i-Q350 and i-B350 tags

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

Communication

Frequency	868 MHz (EU), 919/920/921 MHz (NA)
Certification	EN 300 220 (EU, pending), FCC part15 (US), Industry Canada
Response communication rate	19.200 – 115.200 kbits/s
Number of antennas	1
Antenna connection	SMA
Transmit power	≤ 10 mW/+10 dBm, depending on national regulations, software adjustable
Transmission safeguard	16 Bit CRC
	Sensitivity -100 dBm / depending on data rate

CPU

Operating system	Drivers for different operating systems (Windows CE/Win9x/NT/2000/XP and Linux)
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User Interfaces

Parallel interface	CF Type 1
Number of status indicators	1 LED, bi-color

Electrical

Input power	Dual 3.3 V & 5 V
Power consumption	≤ 250 mW (50 mA)
Standards / Safety	CE and EN 300 220

Environmental

Operating temperature	-20° C to +60° C (-4° F to +140° F)
Storage temperature	-40° C to +80° C (-40° F to +176° F)
Humidity	90% non-condensing

Physical

Dimensions	Standard Type CF Card (55 × 43 × 3.3/6 mm) (2.2 in. × 1.7 in. × 0.13/0.24 in.)
Enclosure	ABS / Metal
Weight	15 grams (0.53 oz.)

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