

PC Card UHF Interrogator i-CARD II



The i-CARD II is the successful version of IDEN TEC SOLUTIONS' Intelligent Long Range® (ILR®) interrogator on a PCMCIA card. ILR® 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 people.

Using advanced UHF radio frequency technology, the i-CARD II transmits and receives data at distances of up to 10 meters (30 ft) from an i-Q tag.

The unique, highly sophisticated anti-collision multi-tag-handling algorithm allows communication to tags even when thousands of tags are within the interrogator's read zone. By integrating the i-CARD II into the PC Card slot of a laptop, handheld or mobile computer, the i-CARD II allows the seamless integration of i-Q tag information into industry-standard tools. The result is real time information, where and when it is needed.

The i-CARD II comes with a software library package to allow quick development of user applications. Several drivers for different operating systems like Windows CE/98/NT/2000, Linux or PALM are available.

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

- communication with ILR® tags
- management of 4 multiplexed external antennas
- data processing
- I/O control

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

Features

- Adjustable output power
- 100-tags/s identification rate
- 2,000-tags simultaneous identification
- Drivers for different operating systems
- Antenna multiplexer driver
- PCMCIA interface
- Serial interface

Benefits

- Read / write range is tunable up to 10 meters (i-Q tag).
- Provides reliable identification of fast-moving objects.
- Large numbers of tags can be identified virtually simultaneously.
- Flexible and hardware independent use.
- Management of 4 multiplexed external antennas.
- Integrates easily into existing handheld or mobile computers.
- For serial integration into other devices.

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 meters.

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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Technical Specifications

Compatibility	ILR® i-O tags
Performance	
Read range (adjustable)	10 m (32.8 ft)
Write range (adjustable)	10 m (32.8 ft)
Max. response time	< 150 ms
Read rate – ID only	100 tags/s
Read rate – 128 bit data	35 tags/s
Multiple tag handling	Up to 2,000 tags in the read zone
Communication	
Frequency	868 MHz (EC) or 915 MHz (NA) ISM Band
Certification	EN 300 220 (EC); FCC part 15 (US); Industry Canada
Number of antennas	1
Output power	Up to 0 dBm, digitally controlled (255 steps)
Sensitivity	Up to -80 dBm, digitally controlled (255 steps)
Antenna multiplexer control	Multiplexer control for 4 external antennas
CPU	
Operating system	Drivers for different operating systems (Windows CE, Win9x, NT/2000/Linux/PALM)
Program memory	2 MB Flash
User Interfaces	
Parallel interface	PCMCIA
Option serial interface	RS-232
Number of status indications	3 LEDs
I/O control	4 digital inputs 4 digital outputs
Electrical	
Input power	5 V DC
Power consumption	100 mW maximum
Standards / Safety	CE and EN 300 220
Environmental	
Operating temperature	0°C to +70°C (32°F to +158°F)
Option ext. temperature range	-40°C to +80°C (-40°F to +176°F)
Storage temperature	-40°C to +80°C (-40°F to +176°F)
Humidity	90% non-condensing
Physical	
Dimensions	Standard Type II PC Card
Enclosure	Metal
Weight	32 grams (1.13 oz)

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