

# Fixed UHF Interrogator i-PORT M



Readers from the i-PORT M series are the newest development in IDEN TEC SOLUTIONS' Intelligent Long Range® (ILR®) interrogators. 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 personnel.

Using advanced UHF radio frequency technology, the i-PORT M transmits and receives data at distances of up to 100 meters (300 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 ILR system components, the Readers from the i-PORT M series offer a leading-edge wireless, automated data collection tool that is easily integrated into advanced information systems.

Furthermore, when combined with IDEN TEC SOLUTIONS' i-PORT 4 B, a total of four read/write modules of type i-PORT MB can be connected and operate concurrently. Flexible installation options allow for effective configurations even for difficult identification applications.

If desired, up to two antennas can be connected to each i-PORT MQ and i-PORT MB.

The software integrated in the Reader contains a variety of features such as preprocessing of data and communication with a variety of Tags: ILR i-Q Tags (i-PORT MQ) and ILR i-B Tags (i-PORT MB). The result is real-time information, where and when it is needed.

## Features

- Adjustable output power
- 100 tags/sec. identification rate
- 2000 tag simultaneous identification
- Drivers for various operating systems
- i-BUS (RS 422 or RS485)
- European and North American versions

## Benefits

### i-PORT MQ:

Ability to adjust the read/write range of i-Q Tags for a range of < 1 meter (3 feet) up to 100 meters (300 feet)

### i-PORT MB:

Ability to adjust the read range of i-B Tags up to 100 meters (300 feet)

Provides reliable identification of fast-moving objects

A large number of Tags can be identified almost simultaneously

Allows for flexible and hardware-independent applications

Permits daisy-chaining of several Readers to a host interface; also provides for only one connection to power supply and data transmission

Tags are available for both standard North American and European frequencies

## IDENDEC SOLUTIONS

IDENDEC SOLUTIONS is the global leader in active wireless tracking solutions. A commitment to developing groundbreaking, industry-specific tracking solutions featuring proprietary patented technology has placed IDENDEC SOLUTIONS in the international forefront as a technology provider for innovation and as a complete solution provider in the automotive, oil, gas and mining industries.

Utilized by the world's leading organizations and system integrators, IDENDEC SOLUTIONS' award-winning technology portfolio offers robust, highly effective tracking solutions that manage critical process and optimize supply chain flow. Privately held since 1999, IDENDEC SOLUTIONS has provided asset management solutions and support to a variety of organizations, including an impressive roster of Fortune 500 clients such as Volkswagen, Audi, Deutsche Post and General Electric. Headquartered in Lustenau, Austria, the company's North American headquarters are located in Dallas, Texas, with customer service centers in Hong Kong, Germany, Australia and Norway. For more information, please visit: [www.identecsolutions.com](http://www.identecsolutions.com).

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"IDENDEC 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 IDENDEC SOLUTIONS, Inc. and/or IDENDEC SOLUTIONS AG.

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.

**WARNING: Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment.**

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## Technical Data

	i-PORT MQ	i-PORT MB
<b>Compatibility</b>	ILR® i-Q Tags	ILR® i-B Tags
<b>Performance</b>		
Write range	Up to 100m (300ft)*	
Read range	Up to 100m (300ft)*	
Read rate identification	100 tags/s	
Read rate 128 bit data	35 tags/s	
Simultaneous identification	Up to 2000 tags	
<b>Communication</b>		
Frequency	868 MHz (EU), 915 MHz (NA)	
Certification	EN 300 220 (EU), FCC part15 (US), Industry Canada	
Data rate up/download	115.2 kBit/s	
Number of antennas	Up to 2	
Antenna connection	SMA	
Transmit power	≤ 0 dBm, digitally adjustable	
Transmission safeguard	16 Bit CRC	
Copy protection	Rolling Code	
Sensitivity (digitally adjustable)	-85 dBm/ high sensitivity -55 dBm/ normal sensitivity	
<b>CPU</b>		
Reader Buffer	Up to 2000 Tags (ID)	Up to 400 Tags
<b>Interfaces</b>		
Host interface	i-BUS (RS422); optional Ethernet, WLAN	
Status display	5 LEDs (ANT1, ANT2, RUN, BUS, ERR)	
<b>Electrical</b>		
Power source	10 – 30 VDC	10 – 30 VDC
Input power	< 1 W	
Standards / Security	CE, EN 300 220	CE, EN 300 220
<b>Environmental</b>		
Operating temperature	-30 °C to +70 °C (-22 °F to +158 °F)	
Storage temperature	-40 °C to +80 °C (-40 °F to +176 °F)	
Humidity	90 % non-condensing	
<b>Physical</b>		
Dimensions	97 × 67 × 97 mm (3.8 × 2.6 × 3.8 in.) 153 × 67 × 97 mm incl. cover (6.0 × 2.6 × 3.8 in.)	
Case material	Plastic	
Weight	150 g	
Package rating	IP40, IP64 with plastic cover	

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

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