

Fixed UHF Interrogator i-PORT MB



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 MB.

Features

- Adjustable input sensitivity
- Data interface master/host
- Data interface slave
- European and North American versions

Benefits

- Ability to adjust the read range of i-B Tags up to 100 meters (300 feet)
- i-BUS (RS422), Ethernet or WLAN
- i-BUS (RS422); for cascading additional i-PORT MB
- Tags are available for both standard North American and European frequencies

IDEN TEC SOLUTIONS

IDEN TEC SOLUTIONS is the global leader in active wireless tracking solutions. A commitment to developing ground-breaking, industry-specific tracking solutions featuring proprietary patented technology has placed IDEN TEC 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, IDEN TEC SOLUTIONS' award-winning technology portfolio offers robust, highly effective tracking solutions that manage critical process and optimize supply chain flow. Privately held since 1999, IDEN TEC 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.

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.

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.

Copyright © 2006 by IDEN TEC SOLUTIONS.
All rights reserved.

Technical Data

Performance

Read range up to 100 m (300 ft)*

Compatibility ILR® i-B tags

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

Communication

Frequency 868 MHz (EU), 915 MHz (NA)

Certification EN 300 220 (EU), FCC part15 (US), Industry Canada

Number of antennas Up to 2

Antenna connection SMA

Transmission safeguard 16 Bit CRC

Copy protection Rolling Code

Sensitivity (adjustable) -85 dBm/ high sensitivity, -55 dBm/ normal sensitivity

CPU

Reader Buffer up to 400 Tags

Interfaces

Data interface master/host i-BUS (RS422), Ethernet or WLAN (IEEE 802.11b)

Data interface slave i-BUS (RS422); for cascading additional i-PORT MB

Status display 5 LEDs (ANT1, ANT2, RUN, BUS, ERR)

WLAN Security

WEP

64/128-bit encryption (RC4)

WPA/WPA2/802.11i

128-bit TKIP/CCMP (AES) encryption

Enterprise mode (802.1X): LEAP (WEP only), PEAP, TTLS,

TLS;EAP-FAST, GTC, MD5, OTP, PAP, CHAP, MSCHAP,

MSCHAPv2, TTLS-MSCHAPv2

Pre-shared key mode (PSK/Personal)

Electrical

Power supply

via i-BUS master connection,

separate connector with Ethernet and WLAN

Power source 10 – 30 VDC

Input power

< 1 W, < 2 W with WLAN

Standards / Safety

CE, EN 300 220

Environmental

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

Physical

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