



i-PORT MB READER



Readers from the i-PORT M series are the newest development in IDEN TEC SOLUTIONS' SensorSMART interrogators.

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-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 SenosrSMART 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 and operate concurrently. Flexible installation options allow for effective configurations even for difficult identification applications.

BENEFITS

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

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

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

European and North American versions
Tags are available for both standard North American and European frequencies

FEATURES

- Adjustable input sensitivity
- Data interface slave
- Data interface master/host
- 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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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-PORT MB READER

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

Read range up to 100 m (300 ft)*
Compatibility ILR@ i-B tags

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, CHAPv2, 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 x 67 x 97 mm (3.8 x 2.6 x 3.8 in.)
153 x 67 x 97 mm incl. cover (6.0 x 2.6 x 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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