

Active UHF Transportable Interrogator i-PORT 310 ISO 18000-7



Readers from the i-PORT 310 ISO 18000-7 series are the newest development in IDEN TEC SOLUTIONS' Intelligent Long Range® (ILR®) interrogators, based on the ISO 18000-7 standard.

ILR provides highly accurate, real-time data collection without human intervention in wireless applications such as:

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

Using advanced UHF radio frequency technology, the i-PORT 310 transmits and receives data at distances of up to 100 meters (300 feet) utilizing integrated antenna.

The standardized anti-collision multi-tag-handling algorithm allows communication to tags even when thousands of tags are within the interrogator's read zone.

Combined with other IDEN TEC SOLUTIONS ILR system components, the readers from the i-PORT M ISO 18000-7 series offer a leading-edge wireless, automated data collection tool that is easily integrated into advanced information systems.

The software integrated in the reader contains a variety of features such as preprocessing of data and communication with a i-Q ISO 18000-7 tags. The result is real-time information, where and when it is needed.

Features

- 100-meters (300 ft) read/write range
- 433 MHz operating frequency
- ISO / IEC 18000-7 compatible
- Adjustable power output
- 100 tags/sec. identification rate
- 128KB of non-volatile memory
- i-BUS (RS 422 or RS485) and RS232
- LED for power indication
- Easy attachment
- AC, DC and Battery powered
- Non-line-of-sight data transmission

Benefits

- Allows automated identification, tracking and tracing of assets without human intervention.
- Allows low-power, long communication range and high data transmission rates with minimal interference due to local conditions.
- Manufacturer independent interoperation. US DoD and NATO ITV compatible.
- Ability to adjust the read/write range of i-Q ISO 18000-7 tags for a range of <1m (3 ft) up to 100 meters (300 ft).
- Provides reliable identification of fast-moving objects.
- Large memory for reader configuration.
- Permits daisy-chaining of several readers to a host interface; also provides for only one connection to power supply and data transmission (RS232).
- Easily visible power indication to show reader status ON/OFF.
- Mounting kit for easy and secure temporary attachment to any structure or vehicle.
- Utilizes rechargeable battery as well as power from various sources and includes all necessary cables and adapters for powering from a vehicle electrical system.
- Allows tags to be buried while transmitting for improved tracking/locating efficiency.

IDENDEC SOLUTIONS

IDENDEC SOLUTIONS is a leading global supplier of innovative RFID systems (Radio Frequency Identification) with communication ranges of up to 100 m.

With its unique Intelligent Long Range® (ILR®) technology, IDENDEC 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 IDENDEC SOLUTIONS or visit our website at www.identecsolutions.com.

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Version 1.2 08/08

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.

Technical Specifications

Compatibility

ILR® i-Q310 ISO 18000-7 Tags

Performance

Write range Up to 100m (300ft)
Read range Up to 100m (300ft)
Read rate identification 100 tags/s

Communication

Frequency 433.92MHz
Certification ISO/IEC 18000-7
Data rate up/download 27.778 kbit/s
Number of antennas 1 (Embedded)
Antenna connection SMA
Transmit power ≤ 0 dBm, digitally adjustable
Transmission safeguard 16 bit CRC
Sensitivity -85 dBm/ high sensitivity
(digitally adjustable) -55 dBm/ normal sensitivity

CPU

Program memory 2 MB Flash
Configuration memory Up to 128KB

Interfaces

Host interface i-BUS (RS422, RS485); RS232, Ethernet, optional WLAN
Status display 5 LEDs (ANT1, ANT2, RUN, BUS, ERR)

Electrical

Power source 10 – 30 VDC, 100 – 240 VAC, 50 – 60 Hz AC
Battery Rechargeable
Input power < 0.5W

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 285 mm x 202 mm x 60 mm
Case material Plastic/Aluminum
Weight 800g
Package rating IP64

Accessories

Mounting Kit
Mounting Structure
AC/DC Power Cable
AC/DC Vehicle Power Cable
Rechargeable Battery
Battery Charger

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

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