



i-PORT F310 ISO/IEC 18000-7 FIXED INTERROGATOR



The i-PORT F310 series is based on the ISO/IEC 18000-7 standard. SensorSMART provides highly accurate, real-time data collection without human intervention in wireless applications such as:

- identification
- tracking & tracing of assets and personnel

Using advanced UHF radio frequency technology, the i-PORT F310 transmits and receives data at distances over 140 meters (460 feet) utilizing integrated antenna.

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

Combined with other IDEN TEC SOLUTIONS system components, the interrogators from the i-PORT F310 ISO/IEC 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 interrogator contains a variety of features such as pre-processing of data and communication with i-Q310 ISO/IEC 18000-7 transponders. The result is real-time information, where and when it is needed.

BENEFITS

140-meters (460 ft) read/write range - Allows automated identification, tracking and tracing of assets without human intervention.

433 MHz operating frequency - Allows low-power, long communication range and high data transmission rates.

ISO / IEC 18000-7 compatible - Manufacturer independent interoperation. US DoD and NATO ITV compatible.

Adjustable power output - Ability to adjust the read/write range of i-Q310 ISO/IEC 18000-7 transponders for a range of <1m (3 ft) to more than 140 meters (460 ft).

Large memory for interrogator configuration.

i-BUS (RS 422 or RS485) and RS232 -Permits daisy-chaining of several interrogators to a host interface; also provides for only one connection to power supply and data transmission (RS232).

To indicate operation over air as also wired communication.

FEATURES

- 140-meters (460 ft) read/write range
- 433 MHz operating frequency
- ISO / IEC 18000-7 compatible
- Adjustable power output
- 128KB of non-volatile memory
- i-BUS (RS 422 or RS485) and RS232
- Status LED
- Easy attachment
- Ethernet

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.



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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

Compatibility	ILR® i Q310 ISO 18000-7 Transponders
Performance	
Read/Write range	up to 140 m (460 feet) in free air (line of sight)
Communication	
Frequency	433.92MHz
Certification	ISO/IEC 18000-7
Data rate	27.778 kbit/s
Modulation	FSK ± 50 kHz at 27.778 kHz data rate
Transmit power	≤ 0 dBm to comply with national regulations
Sensitivity	-95 dBm
CPU	
Program memory	2 MB Flash
Configuration memory	Up to 128 KB
Interfaces	
Host interface	Ethernet, RS232, RS485 (IN and OUT)
Status display	5 LEDs (ANT, RUN, BUS, ERR, ETH)
Electrical	
Power source	10 – 30 VDC, 90 – 260 VAC, 47 – 63 Hz AC
Input power	Maximum 15W when 3 additional devices are daisy chained.
Single Device	2.5W at 115VAC, 5.0W at 230VAC, 2.0W at 24VDC
Environmental	
Operating temperature	-30°C to +60°C (-22°F to +158°F)
Storage temperature	-40° C to +70° C (-40°F to +176°F)
Humidity	90% non-condensing
Package rating	IP64
Physical	
Dimensions	
w/o mounting bracket	357mm L x 237mm M x 70.5mm H (14.06 in. L x 9.33 in. M x 2.78 in. H)
with mounting bracket	357mm L x 237mm M x 133mm H (14.06 in L x 9.33 in M x 5.24 in H)
Case material	PC / ABS with UV inhibitors, UL 94 V0
Weight	1500 g
Approvals	
Radio	FCC Part 15, EN 300220, RSS-210
EMC & Immunity	EN 301489
Safety	EN 60950
Ordinance	H ERO Listed
Accessories	
Mounting Kit	PN 390568
Battery Charger	PN 390871
Rechargeable Battery	PN 390972

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