

This advanced RFID reader is widely used in multiple applications such as sensor identification, tracking and localization of high value asset and personnel as well as temperature monitoring.

This advanced RFID reader provides highly accurate, real-time data collection with minimal human intervention in wireless applications such as sensor identification, tracking and localization of high value assets and personnel as well as temperature monitoring. It communicates with tags at distances of up to 500 meters. It provides an anti-collision algorithm which guarantees identification of thousands of sensors located within the interrogator's read zone. The high rate of transmission allows communication even with rapidly-moving tagged objects. In addition, this sensor smart reader is equipped with two antennas to eliminate dead RF spots and is also highly durable.



Key Features

- ✓ Communication with response sensors
- ✓ Collects data from beacon sensors
- ✓ Provide 2000-sensor simultaneous identification
- ✓ Data interface master/host: i-BUS (RS422), Ethernet or WLAN
- ✓ Anti-collision algorithm function
- ✓ Data interface slave allows daisy-chaining of several readers to a host interface and also provides for only one connection for power supply and data transmission.
- ✓ Communicates with all 137004, 137005, 137006 sensors
- ✓ Industrial housing

Technical Specifications

Communication Broadcast

Operation Mode	Receiving Sensor ID's and Data
Read Range	up to 500m (1600 ft)*
Compatibility	137004, 137005,137006 series of sensors
Operating Frequency	868 MHz (EU) or 920 MHz (NA)

Communication Response

Operation Mode	Bi-directional communication (reading log, blink LED, write/read data)
Communication Range	up to 250m (800ft)*
Compatibility	137004, 137005,137006 series of sensors
Operating Frequency	868 MHz (EU) or 920 MHz (NA)

Transmit Power	<1mW
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Antennas

Broadcast/Response	2 SMA connector for external antenna at 868 (EU) or 920 MHz (NA)
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Performance

Reader Buffer (Broadcast)	Up to 400 sensors
Multiple Sensor Handling (Response)	Up to 500 sensors per read zone

Interfaces

Data Interface master/host	i-BUS (RS422) or Ethernet
Data Interface slave	i-BUS (RS422) for cascading additional i-PORT M's
Status Display	5 LED's (ANT 1, ANT 2, RUN, BUS, ERR)

Electrical

Power Source	10-30 VDC
Power Consumption	< 2 Watt

Environmental Conditions

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
Standard/Certification	
Europe	CE (EN 300 220-1, -3; EN 301 489-1,-3; EN 60950)
North America	FCC Part 15 (US); Industry Canada
Mechanical Data	
Dimensions	97 x 67 x 36 mm (3.8 x 2.6 x 1.4 inches) 153 x 67 x 36 mm incl. cover (6.0 x 2.6 x 1.4 inches)
Enclosure Material	Plastic
Enclosure Rating	IP 40; IP 64 with plastic cover
Weight	150 g (5.29 ounces)

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