This integrated RFID reader enables long range localization in both indoor and outdoor environments.

This RFID reader enables long range localization in both indoor and outdoor environments. It is well suited for a variety of wireless applications including real-time object tracking and identification, localization of high value assets and personnel and temperature monitoring. The highly robust RFID reader is easy to integrate and offers maximum reliability and functionality. It delivers instant identification as well as precise location of assets or personnel within 1m (3ft). In addition, its IP64 industrial housing allows outstanding performance even in the most challenging environments.

Key Features

- ✓ Up to 300 m (1000 ft) localization range
- ✓ Allows automated localization of vehicles, assets and people without human intervention
- ✓ Support ISM and UHF operating frequencies
- ✓ Support 500-sensor simultaneous identification
- ✓ Offers the ability to adjust the read/write from a range of < 1 meter up to 250 m
- ✓ Detects the broadcast messages of compatible sensors from a distance of up to 500 m
- ✓ Automatic gathering of information
- ✓ 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
Communication RTLS	
Operation mode	Distance measurement
Communication range	up to 300m (1000ft)*
Compatibility	137005 RTLS series or sensors
Operating frequency	2.4GHz
Transmit power	< 100mW or local regulations
Antennas	
Broadcast/Response	1 SMA connector for external antenna at 868 (EU) or 920 MHz (NA)
Localization	1 SMA connector for external antenna at 2.4 GHz
Performance	
Reader Buffer (Broadcast)	Up to 400 sensors
Multiple Sensor Handling	Up to 500 sensors per read zone
Localization rate	Up to 400 sensors per minute 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 (UHF, RTL, 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 300 328, 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) incl. cover
Enclosure Material	Plastic
Enclosure Rating	IP 40; IP 64 with plastic cover
Weight	150 g (5.29 ounces)

GAO Group

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