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Demanding More from Wireless Sensing

MODEL

EV3-ST

DESCRIPTION

Sensor Transponder

This Sensor Transponder incorporates temperature, humidity, shock, and light sensing to our already powerful Data Rich Transponder capabilities. These value-added functions allow the network to monitor the environmental condition of assets as they travel through the supply-chain. Combined with innovative data collection and reporting software, these Sensor Transponders can be used to manage in near-real-time the condition and quality of environmentally-sensitive assets. In this manner, irreparable damage can be avoided or damage conditions can be identified and resolved.

With the EV3 family of products, it has never been easier and more cost-effective to dramatically increase visibility of assets in-transit through a complex supply-chain, monitor security breaches, and provide a more reliable and timely supply network.

The EV3-Series of hardware products is designed to provide dramatically improved functionality at a much more attractive price point than was attainable by previous conventional Active RFID design approaches. With the judicious use of Integrated Sensor and ASIC technologies, improved sensing and other value-added capabilities have been included across the family of products, while still improving the size, power consumption, and end-user cost of our hardware products. Consequently, any supply-chain management network built on these devices will enjoy an improved ROI along with significantly enhanced functionality, visibility, and security control. Additionally, products in the EV3 family are fully compliant and interoperable within the ISO 18000-7 standard and DoD RFID Equipment Guidelines.

Model	Sensor Transponder EV3-ST
RFID Protocol	ISO 18000-7:2008 + DoD 18000-7 RFID equipment guidelines
Frequency	433.92 MHz
Range	350 feet unobstructed when mounted to a container
Antenna	Omni-directional internal
Power	A' size 3.6 V primary lithium (Li-SOCl2), user replaceable
Battery life	> 4.5 years with 2 collections/day, temp/humidity 1 sample/min, light 30 samples min, shock event triggered
Communications	USB (mini port)
Weight	5.6oz (158.8g)
Dimensions	6.5" L x 2.37" W x 1.42" H 16.26 cm x 5.52 cm x 3.61 cm
Operating Temperature	-30 C to +70 C
Storage Temperature	-40 C to +70 C
Dust and Moisture	IP 64
Beeper	Audible beeper for tag location and status indication
Memory	512 kbytes, user configurable between data and sensor data, where either can be from 0-512 kbytes
Sensors	Scan rate: user programmable: 2 sec-60 min User defineable alarm thresholds Temperature: range: -30 to 70 C, resolution 0.5 C Humidity: range: 0%-100% RH, resolution: 0.5% RH Shock event (up to 250 g) Light sensor
Compliance	FCC Part 15.240 and Part 15.231 IC certified RSS-210, HERO no restrictions EMI safe on any aircraft
Low-Battery Indicator	From interrogator or on LED panel

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About Evigia

Evigia is the industry leader in utilizing integrated sensor and ASIC technologies to dramatically improve the functionality and cost of Active RFID hardware products. These advances allow significant improvement in the performance and cost of asset-management supply chains. The network's functionality, visibility, and security control are dramatically increased, while the underlying hardware products themselves benefit from smaller size, lower power consumption, and lower cost with our solution approach. The EV3-Series family of products are fully compliant and interoperable within the ISO 18000-7 standard. Let us show you how Evigia's solutions can improve your supply chain networks.