



Demanding More from Wireless Sensing



MODEL

**EV3-AFI**

#### DESCRIPTION

### Active Fixed RFID Interrogator

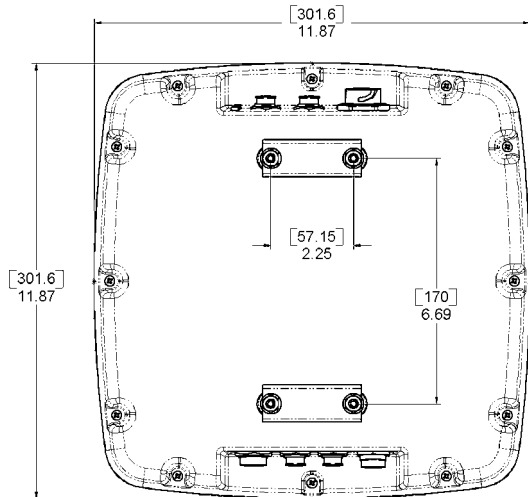
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This Active Fixed Interrogator is a long range, omni-directional, connectable device that when networked with other AFIs and other data collection devices forms the backbone of a low cost, yet highly functional and secure Active RFID reader network. When used in conjunction with its corresponding EV3 family of active transponder tags, this reader network provides unprecedented visibility, asset management control, and security monitoring at price-points that were unattainable previously.

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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	Active Fixed Interrogator EV3-AFI
<b>Supported RFID Transponder Protocols</b>	ISO 18000-7:2008 + DoD 18000-7 RFID equipment guidelines
<b>Frequency</b>	433.92 MHz
<b>Range</b>	350 feet
<b>Data Rate</b>	27.7 KHz
<b>Power</b>	50-60 Hz, 100 -250 VAC, 100 mA max or 9-36 VDC, 900 mA max 8 Watts Max
<b>Communications</b>	RS-232 (configurations and diagnostics only) RS-485 (daisy chain network) Ethernet (TCP/IP (RJ-45)) USB (mini port) 802.11a/b/g optional
<b>Antenna</b>	Omni-directional internal
<b>Weight</b>	5.56 lbs (2.52Kg)
<b>Dimensions</b>	11.875" L x 11.875" W x 3.43" D 30.16 cm x 30.16 cm x 8.7 cm
<b>Case Material</b>	Polypropylene with UV inhibitors
<b>Operating Temperature</b>	-30 C to +70 C
<b>Storage Temperature</b>	-40 C to +70 C
<b>Dust and Moisture</b>	IP 64
<b>Memory</b>	512 MB RAM 1 GB Flash ROM, up to 4 GB optional for program and data storage, Custom applications can be implemented in reader
<b>Operating System</b>	Linux OS
<b>LED Indicators</b>	Power, ethernet connected, USB connected, active
<b>Software SDK</b>	PM J-AIT Common Abstraction Interface Java Library Version 2.5 implementation Evigia API SDK (C/C++/ Java)
<b>Compliance</b>	FCC Part 15.240 and Part 15.231 IC certified RSS-210 HERO no restrictions EMI safe on any aircraft

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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.