



Demanding More from Wireless Sensing



MODEL

**EV3-AFI2**

#### 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-AFI2
Supported RFID Transponder Protocols	ISO 18000-7:2009 + DoD 18000-7 RFID equipment guidelines
Frequency	433.92 MHz
Range	350 feet
Data Rate	27.7 KHz
Power	50-60 Hz, 100 -250 VAC or 9-36 VDC, @12V 250 mA max, 6 Watts
Communications	RS-232 (configurations and diagnostics) RS-485 (daisy chain network) Ethernet (TCP/IP (RJ-45)) USB (mini port) 802.11a/b/g optional 2G quad-band cellular modem & GPS Optional
Antenna	Omni-directional internal
Weight	1.9 lbs (860g)
Dimensions	8.5" L x 8.5" W x 3.5" H 21.59 cm x 21.59 cm x 8.89 cm
Operating Temperature	-30 C to +70 C
Storage Temperature	-40 C to +70 C
Dust and Moisture	IP 64
Memory	64 MB DDR-RAM 256MB Flash, up to 32GB for program and data storage, custom applications can be implimented in reader
Operating System	Linux OS
LED Indicators	Power, ethernet connected USB connected, activity
Software SDK	PM J-AIT Common Abstraction Interface Java Library Version 3.0 implementation Evigia API SDK (C/C++/ Java)
Compliance	FCC Part 15.240 and Part 15.231 IC certified RSS-210
Mounting Reader	Available with pole mount or wall mount brackets



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## About Evigia

Evigia is the industry leader in the development and deployment of integrated sensor and ASIC technologies to dramatically improve the functionality and cost of wireless and sensing products. The third-generation EV3 platform delivers smaller size, higher energy efficiency and lower cost products which allow significant improvement in the performance and cost of wireless sensing networks. Products in the EV3 family are fully compliant and interoperable within ISO 18000-7 systems.