vizinex RFID
the way you imagined

MADE IN THE USA

EMX-1

**EMX-1
AST1-082-0001**

**Part Number
AST1-082-0001**

Industries
▶ Financial Services
▶ Healthcare
▶ Academia

**Low cost, multi-surface UHF Tag with
15' read range for general asset tracking**

Applications
▶ IT Assets
▶ Laptops
▶ Office Assets

❯ Overview

The EMX-1 is the first in a line of low cost RFID tags that offers multi surface use in a thin package. It is intended for use in indoor environments with a diverse set of assets as the read performance is balanced on metal and non metal surfaces. At just 0.072" thick (1.8mm), read distances of 15' are typical using an enterprise reader or a Motorola 9190 handheld reader. Manufactured in the United States, the EMX-1 is available with Vizinex's full Service Bureau for maximum labeling, encoding and locking options. The EMX-1 can easily be adapted for applications involving overmolding/overspraying, embedding in metal or composites, or repetitive high temperature exposure such as Autoclave service. The EMX-1 is available in US or EU version.

Why Vizinex?
▶ Trusted Technology
▶ Innovative Design
▶ High Performance
▶ Unmatched Customer Service

This product is compliant with RoHS Directive 2011/65/EU.

Features & Benefits

• Typical read distance of 15' on plastic, metal-imbedded plastic or metal surfaces

• Low profile with dimensions of 2.76" x 0.68" x 0.072" (70 x 17 x 1.8 mm)

• Additional data storage: 96-bit EPC memory plus 512-bit user memory

• Low cost option for less demanding, indoor environments

• Standard high performance, acrylic adhesive

❯ The Sentry Platform

Vizinex RFID's Sentry line of high performance, cost-effective, and application-specific RFID tags are based on a printed circuit board platform. This well-established manufacturing process offers unsurpassed reliability and consistency in read range performance. At the core of the tag is a fiber-reinforced composite material that gives the Sentry tag its innate ruggedness. The innovative, patented tag design enables fast prototyping and affordable customization-essential to the expanding requirements of the RFID industry.

❯ EMX-1 Specifications

Physical	
Dimensions	70mm x 17mm x 1.8mm (2.76" x 0.68" x 0.072")
Use Case	Indoor; plastic or metal surfaces
Attachment	Acrylic adhesive suitable for multisurfaces
Weight	2 grams
Electrical/RF	
Typical Read Range	15 feet at 36 dBm ERP
Frequency	902-928 MHz
IC Platform	Alien Higgs EC
IC Memory	96-bit EPC 512-bit user memory
Environmental	
Classification	IP67
Operating Temperature	-50°C to +85°C (-58°F to +185°F)
Temperature Tolerance	-50°C to 150°C (-58°F to 302°F)
HT/HI upgrade	-50°C to 185°C (label maximum temperature is 160°C)
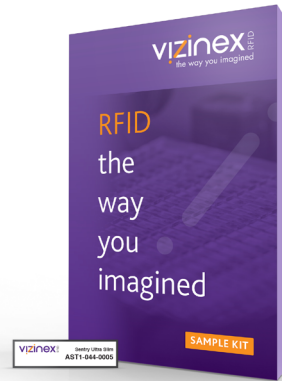
What can Vizinex RFID do for your company?
Email sales@vizinexrfid.com or call 215-529-9440 to talk about your needs and requirements.

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About Vizinex RFID

Vizinex RFID, headquartered in Bethlehem, PA, designs and manufactures RFID tags for diverse asset tracking applications from rugged environments in the oil industry, to medical devices requiring repeated sterilization, to long-range vehicle tracking. With prototyping and manufacturing located in the U.S., our time from concept to delivery is unmatched. Vizinex RFID maintains a tradition of innovation, superior functionality and outstanding customer support, allowing us to deliver RFID ... the way you imagined.