vizinex RFID
exactly the tag you need

MADE IN THE USA

Sentry Midrange II

A quantum leap in the performance and cost of one of our most widely used tags for large metal assets.

▶ Sentry Midrange II Overview

Improvements in RF chip design, and Vizinex's expertise at matching the new chips to highly efficient antennae, are improving the performance and reducing and cost of RFID. The Midrange II is the second generation of Vizinex's highly successful tag for tracking larger metal assets. The new generation is 30% smaller than its predecessor, but it provides the same read range and broader frequency response at a price that is 25% lower.

The new tag has a relatively small footprint of 39mm x 17mm. Despite this small package, it provides a read range of 25' when mounted on metal. The smaller footprint and lower cost of the 2nd generation tag will enable the cost effective tagging of a wide range of metal assets from reusable containers to oil field assets to construction equipment. The optional cover provides extra protection for the RF device and the flexibility to use bolts, rivets or zip-ties for attachment.

▶ Features & Benefits

• Read distances of 25' feet when mounted on metal

• Modest footprint of only 1.02 in^2

• Rugged: Tolerant of repeated exposure to high temperatures, vibration and impact

Part Number

US Frequency
▶ AST1-174-0001 (no cover)
▶ AST1-174-0100 (with cover)

EU Frequency
▶ AST1-174-4555 (no cover)
▶ AST1-174-4655 (with cover)
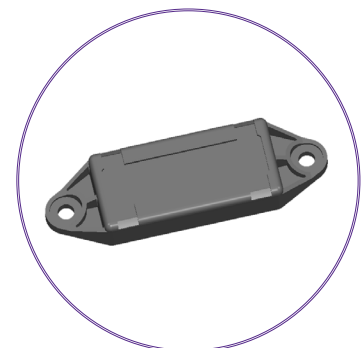
Industries
▶ Government/military
▶ Manufacturing
▶ Waste management
▶ Rental equipment
▶ Oil and gas

Applications
▶ Reuseable containers/ special transport items
▶ Yard management/logistics
▶ Construction equipment tracking
▶ Tool and die tracking

Why Vizinex?
▶ Innovative design
▶ High performance
▶ Best in industry service
▶ Made in the U.S.

❯ The Sentry Platform

Vizinex RFID's Sentry line of high-performance cost-effective, and application-specific RFID tags is 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.

❯ Sentry Midrange II Specifications

Physical	Bare Tag	Covered Tag
Dimensions	1.52 x 0.67 x 0.22 in 39 x 17 x 5.6mm	2.50 x 0.69 x 0.25 in 63.5 x 17.5 x 6.4mm
Use Case	Mount on metal	Mount on metal
Attachment	High-performance, acrylic adhesive	2 X #8 screws or rivets / adhesive
Weight	6.4 g, 0.22 oz	10 g, 0.35 oz

Electrical/RF	Bare Tag	Covered Tag
Typical Read Range	25 feet	
Frequency	US or ETSI - versions are separate parts	
IC Platform	Impinj R6-P	
IC Memory	96 Bits EPC + 64 Bits User	

Environmental	Bare Tag	Covered Tag
Ingress Protection	IP-68	IP-69K, when mounted with screws
Operating Temperature	-50° - 85° C	
Temperature Tolerance	170C continuous, 200C minutes	
	HT Version 200C continuous, 225C hours	

Can't find a standard RFID tag that meets your needs?

Vizinex custom RFID tags will fit your dimensional, material, environmental and/or functional requirements EXACTLY – because we design them that way. And we do it with your costs, product design and end customers in mind.

How are we able to design exactly the tag you need? It's not complicated. We do it by talking to you.

Email sales@vizinexrfid.com or call 215-529-9440 to talk about your needs and requirements.