

Sentry AST™ Autoclave

Trusted Technology
Innovative Design
High Performance



Low Profile UHF Tag for Mount on Metal Autoclave Applications

Industries

- Healthcare
- Veterinary

Applications

- Laboratory equipment management
- Surgical instrument tracking
- Dental instrument tracking

Overview

The Sentry AST™ Autoclave is a small footprint mount on metal tag designed for tracking high value medical, laboratory and veterinary assets or trays of assets that need to undergo autoclave sterilization processes. It incorporates specific designs that protect the chip-to-antenna bond to withstand repeated autoclave temperature and pressure cycles. At just 0.1" thick and 0.6 square inches, this slim profile tag delivers a 4 - 6 foot read distance when attached to metal surfaces. When required, an autoclave tested film label and adhesive can be attached to the tag.

Features & Benefits

- Read distances over 4-6 feet on metal surfaces
- High performance, autoclave tested acrylic adhesive
- Low profile, small footprint providing excellent performance-to-size ratio
- Additional data storage: 96-bit EPC memory plus 512-bit user memory
- Autoclave tested film label



Sentry AST™ Models

- Ultra Slim
- Slim
- Metal
- Cable
- Worldwide
- Multi-Surface
- Duo
- Autoclave
- Extreme
- High Temp
- MidRange
- Down Hole
- Long Range

Sentry AST Autoclave Specifications

Physical

• Dimensions	36.3mm X 10.9mm X 2.88mm (1.43" x 0.43" x 0.11")
• Use Case	On metal
• Attachment	High performance, acrylic adhesive
• Weight	2 grams

Electrical/RF

• Typical Read Range	4-6 feet at 36 dBm ERP
• Frequency	902-928 MHz
• IC Platform	Alien Technology Higgs3
• IC Memory	96 bit EPC 512-bit user memory

Environmental

• Classification	IP67
• Operating Temperature	-50°C to +85°C (-58°F to +185°F)
• Typical Autoclave	100 cycles at 134°C, 22 psi steam, dwell of 20 min

Part Number	AST1-017-0010
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About the Sentry AST™ Platform

Vizinex RFID's Sentry AST™ 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 AST its innate ruggedness. The innovative, patent-pending tag design enables fast prototyping and affordable customization—essential to the expanding requirements of the RFID industry.

About Vizinex RFID

Vizinex RFID, headquartered in Allentown, 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.

To order your Sentry AST sample kit or for more information about Vizinex RFID, contact us at sales@vizinexRFID.com or 215.529.9440.