Elpas
Active RFID/RTLS Solutions

All Weather Asset Tracking Tag

Description

The Elpas All Weather Asset Tracking Tag from Visonic Technologies is an active extended-range, all weather Radio Frequency (RFID) device. The tag is designed for the real-time monitoring of metal or wooden shipping containers and cable drums in large indoor/outdoor storage and transportation facilities.

The tag's onboard transmitter emits continuously low power, beacon type radio frequency (RF) messages that identifies the exact real-time location of the asset with unparallel reliability and precision. When attached to the container or drum; the tag also transmits alert notifications for keeping security personnel informed of deliberate and/or unintentional tampering. The tag also features an onboard; 2-axis, power-switching; miniature accelerometer for optimizing alerting reliability and performance in severe environmental weather conditions such as heavy rain and hail.

Designed for harsh indoor/outdoor environments, the tag's solid state electronics is housed in an epoxy potted, IP-67 rated, weatherproof thermoplastic casing. The design ensures years of maintenance free deployments and consistent UHF (433.92MHz) transmissions up to 100m/330ft (360° coverage area).

One tamper plate, two 2.9mm/0.11inch x 13 self-drilling screws, two 3.9mm/0.15inch x 25 self-drilling screws, two M4 flat washers and two M4 helical spring lock washers are included with each tag

Note: An aluminum drilling template may be ordered separately, which contains four 2.6mm/0.1in diameter holes for determining the correct locations of the mounting screws that will be used to attach the tag and tamper plate to the container or drum.

Upon special request, an onboard low frequency (LF) receiver can be added to the tag for enabling chokepoint area supervision.

All Weather Asset
Tracking Tag

Product Features

Small size and light weight
Tough, epoxy potted, IP-67 outer casing
Optimized alert reliability in strong rain and hail
Instant tamper/removal indication
Beacon type RF signaling technologies
RF range up to 100m/330ft (360° coverage area)
Instant tamper/removal indication
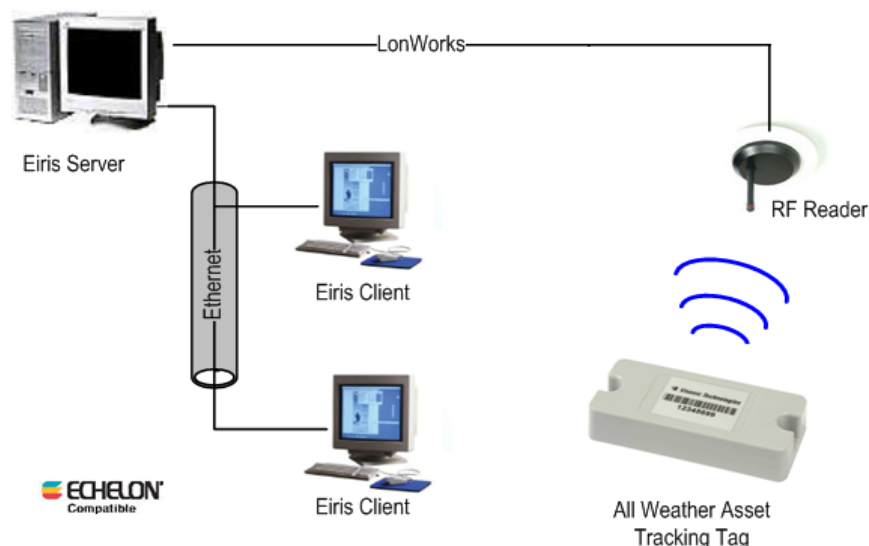Long battery Life – approximately five years
Optional LF receiver

Applications & Uses

Verifiable asset identification
Indoor/outdoor container management
Shrinkage prevention
24/7 asset supervision
Asset movement and auditing
Unauthorized asset handling
Exit/entrance chokepoint supervision

Visonic Technologies
Enterprise Protection Solutions

Elpas All Weather Asset Tracking Tag– Data Sheet

Electrical Specifications	
Radio Technology	RF (433.92 MHz)
RF Range	100 meters/330 feet in open areas (360° coverage)
RF Transmission Rates	In-motion: Every 4 seconds Stationary: 30 seconds
Tamper Event Transmission Rate	4 RF transmissions (each transmission @ 2ms in duration), 400ms apart.
Power Source	CR2 Lithium battery (1AmpHr approx)
Battery Life	5 years approximately
Badge ID	Unique factory programmed ID
General Specifications	
Construction	Light-gray, polymer plastic
Dimensions (H x W x D)	10.0cm x 4.5cm x 2.0cm (3.9 inches x 1.8 inches x 0.78 inches)
Weight (assembled)	100 grams (3.5 ounces)
Operating Environment	Temp: -10°C to 70°C (14°F to 158°F), Humidity: 100% non-condensing
Storage Temperature	-40°C to 80°C (-40°F to 176°F)
Mechanical Tamper	Passive, Omni-directional tilt and vibration sensor
Accelerometer	Capacitive micro-machined, dual-axis, high-sensitivity (800mV/g @ 1.5g)
Housing	IP67 water rated enclosure
Remote Management	EIRIS 4.5 (or higher) enterprise software
Compliance Standards	FCC and EC approvals pending
Warranty	1 year limited warranty (excluding battery)

System Topology

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About Visonic Technologies

Visonic Technologies (VT), a fully owned subsidiary of Visonic, Ltd. (VSC.L) is a global leader in enterprise-class, active & passive RFID/ RTLS real-time visibility solutions. Sold under the Elpas, SpiderAlert, VisAccess and EIRIS system names, VT's' products deliver workforce identification and safety; supply-chain logistics, asset protection and facility supervision.

Ordering Information

Part Number	Description
5-ETD00433	All Weather Asset Tracking Tag, WP, RF, 433MHz, 15/16
5-ETD00433-2	All Weather Asset Tracking Tag, WP, RF-Basic, 433MHz

Accessories

Part Number	Description
5-ETD90001	Reflective Tamper Plate (5 pcs)
5-ETD90002	Drilling Template (3 pcs)

Manufactured In Israel