Savi® License Plate Tag (ST-621)

The Savi ST-621 license plate tag is a cost effective,active RFID tag designed for various applications, such as tracking shipping containers and other conveyances. To withstand harsh, isolated environments, the ST-621 features a rugged form factor design, and has a replaceable battery with a typical life of five years.

PRECISE · LONG LIFE · RUGGED

Active RFID and ISO 18000-7

Active RFID technology revolutionized the identification, monitoring and tracking of valuable assets and shipments. Savi helped drive the creation of the active RFID ISO 18000-7 standard to support active RFID interoperability worldwide. ISO 18000-7 has been adopted worldwide by commercial enterprises and defense organizations. Savi products such as the ST-621 are built to support the ISO 18000-7 protocol and drive effective and accurate real-time tracking. The ST-621 also has 400 feet (122 m) of range for wake-up, collections and RF read/write. The ST-621 can be installed permanently via fixed hardware, or temporarily using pressure sensitive tape (PST) or a magnetic mounting bracket equipped with high-strength rare earth magnets.

Benefits of Low Frequency (LF) Technology

Savi products support LF technology, which allows users to locate assets with greater precision. Savi's LF solution does this by focusing the tag wakeup field so that tags are not read multiple times, thus conserving tag battery life. Savi's LF Signposts can capture assets passing through a chokepoint at speeds up to 60 mph (97 kph). Robust and scalable, Savi's LF solution tracks assets and items throughout the supply chain effectively and automatically.

Savi License Plate Tag (ST-621) Specifications

MODEL NUMBERS

ST-621-030	Baseline license plate tag
ST-621-030 CN:MB	License plate tag with mounting bracket
ST-621-030-CN:MM	License plate tag with magnetic mount
ST-621-030-NSN	NSN baseline license plate tag with label
ST-621-030-NSN CN:MB	NSN license plate tag with mounting bracket and label
ST-621-030-NSN CN:MM	NSN license plate tag with magnetic mount and label

PHYSICAL

Dimensions	6.2 in. (15.8 cm) x 2.1 in. (5.4 cm) x 1.1 in (2.8 cm)
Weight	3.8 ounces (108 g)
Color	Black
Beeper	Audible beeper for tag location

ENVIRONMENTAL

Temperature	-32°C to +70°C Operating; -40°C to +85°C Storage
Humidity	95% Non-Condensing
Vibration and Shock	MIL-STD-810F
Weatherproofing	IP64
Manufacturing	RoHS Directive 2002/95/EC

WIRELESS (UHF TRANSCEIVER)

Frequency	433.92 MHz at 0.6 mW peak EIRP, FSK Modulated
Range	400 ft. (122 m) operating read/write range (outdoors, non-obstructed)
Protocols	ISO 18000-7, EchoPoint

WIRELESS (LF RECEIVER)

Frequency	123 kHz
Range	Up to 12 ft. (3.6 m) from Savi SP-651-211 Long Range Signpost or Savi SP-652-211 Signpost Reader
Protocol	EchoPoint Protocol

POWER

Battery Type	3.6 V lithium, replaceable by user without tools
Battery Life	Approximately 5 years at 2 collections per day

Key Features

- ISO 18000-7 compliant active RFID license plate tag
- 400 ft. (122 m) of range for wake-up, collections and RF read/write
- Replaceable battery with typical life of five years
- FCC, ETSI, HERO and RoHS certified

Approvals

- Radio Type Approval: FCC Part 15, ETSI EN 300 220 (433.92 MHz)
- EMC & Immunity: ETSI EN 301 489
- Ordnance: HERO Certified, ARDEC rating of 1 in. (2.5 cm)

ABOUT SAVI

Savi delivers live streaming facts and insights about the location, condition, and security of in-transit goods. Using big data analytics, Savi equips shippers, carriers, 3PLs, and governments to optimize supply chain logistics before, during and after transit, reducing costs and inventory while improving service. Savi is trusted to run the world's largest and most complex asset tracking and monitoring network serving the US DoD, Allied military and more than 1000 commercial companies around the globe.

For more information visit savi.com.

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