



Specification Sheet

Savi ST-621 License Plate Tag



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

The ST-621 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.

Active RFID and ISO 18000-7

Active RFID technology revolutionizes 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 on a worldwide basis. 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.

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 & 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

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Benefits of Savi's 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 wake-up 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.

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

Specifications (continued)

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

Approvals

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

CONTACT US

To learn more about the full range of Savi's solutions, please email us at info@savi.com or visit www.savi.com.

About Savi

Savi Technology provides enterprises and organizations with unique and critical insight through the Savi Sensor Based Analytics Platform. The platform gives enterprises the ability to access, analyze and learn from new data in ways previously impossible, yielding streamlined operations, enhanced security and dramatically improved enterprise decision-making. Savi is headquartered in Alexandria, VA, with operations in Lexington, KY and around the world. Savi was recently named a 2013 Computerworld Honors Laureate for the economic improvements its technology has provided to several countries in Africa. Savi has more than 100 domestic and foreign issued patents covering a variety of technologies and is an active participant in several industry standards bodies including ISO 18000-7. For more information visit www.savi.com.