

Savi Data-Rich Tag (ST-654)



The Savi ST-654 high performance, data-rich active RFID tag is suited for various applications, including the tracking of shipping containers, vehicles and other large assets.

Available with 256 Kbytes of programmable memory, the ST-654 can hold a variety of data, from simple IDs linked to a server database, to detailed shipment manifests. The ST-654 is constructed to survive harsh environments and to provide reliable data to RFID readers. The ST-654 supports 400 feet (122 m) of RFID communications range and delivers real-time asset information to guide supply chain operations.

The ST-654 employs state-of-the-art power management technologies that extend the life of its replaceable battery up to five years. The ST-654 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.

Specifications

Model Numbers		CLIN: 0005, 0006
ST-654-041	Baseline data-rich tag	
ST-654-041 CN:MB	Data-rich tag with mounting bracket	
ST-654-041 CN:MM	Data-rich tag with magnetic mount	
ST-654-041-NSN	NSN baseline data-rich tag with label	
ST-654-041-NSN CN:MB	NSN data-rich tag with mounting bracket and label	
ST-654-041-NSN CN:MM	NSN data-rich tag with magnetic mount and label	
Physical		
Dimensions	6.2 x 2.1 x 1.1 in. (15.8 x 5.4 x 2.8 cm)	
Weight:	3.8 ounces (108 g)	
Color:	Green	
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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Features:

- ISO 18000-7 compliant active RFID tag
- 256 Kbytes of database memory enables tag to support multiple applications
- 400 ft. (122 m) of range for wake-up, collections and RF read/write
- Replaceable battery with typical five year life
- Supports innovative low frequency technology for more precise locating capabilities
- Supports USB for reading and writing
- FCC, ETSI, HERO and RoHS certified

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.

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

Leveraging 25 years of leadership in sensor technology, Savi is pioneering sensor analytics solutions that create operational intelligence from the Internet of things. Applying big data technologies to machine-generated data, Savi solutions are trusted to run the world's largest and most complex asset tracking and monitoring network, serving the U.S. DoD, Allied military and more than 250 commercial companies around the world. For more information about Savi visit www.savi.com.

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
Power	
Battery Type:	3.6 V lithium, replaceable by user without tools
Battery Life:	Approximately 5 years at 2 collections per day
Digital	
Database Memory:	256 Kbytes on-board non-volatile memory
Wired Interface:	USB 1.1, USB 2.0
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)