Savi

Savi Fixed Reader (SR-650)

Built to support the ISO 18000-7 protocol, the Savi Fixed Reader (SR-650) is part of an innovative, reliable solution for real-time, end-to-end visibility of goods and critical assets moving through supply chains. The Savi Reader is available in an ISO-only configuration, as well as a dual-mode configuration.

The ISO-only Savi Reader supports all ISO 18000-7 compatible active RFID tags. The more advanced dual-mode model is ISO 18000-7 and ANSI INCITS 256 compatible. The dual-mode model provides backward compatibility with the three million ANSI INCITS 256 tags in active use in the RF-ITV Network, as well as those used by International Militaries. The Savi dual-mode readers are the only readers on the market that can collect data from both ANSI INCITS 256 and ISO 18000-7 protocol tags.

The Savi Reader tracks items moving through gates and chokepoints, or monitors assets within warehouses or yards. The Savi Reader then forwards this data to Savi SmartChain® Site Manager or other applications using the SmartChain Developer's Toolkit.

The Savi Reader's weatherproofed packaging makes it ideal for indoor and outdoor use. Equipped with an omni-directional antenna, the Savi Reader can monitor hundreds of items within its range of 400 feet (122 m).

Specifications

Model Numbers	
SR-650-101-WW CN:DM	Dual-mode active fixed reader with worldwide plugs
SR-650-101 CN:DM	Dual-mode active fixed reader
SR-650-101 CN:ISO-ONLY	ISO 18000-7-only active fixed reader
SR-650-133-T-KIT	ISO 18000-7-only active transportable reader kit with rechargeable batteries

Physical	
Dimensions:	12 in. (30 cm) x 5.5 in. (14 cm)
Weight:	4.2 lbs (1.9 kg)
Case Material:	Polypropylene with UV inhibitors

Environmental	
Temperature:	-32°C to + 60°C Operating; -40°C to + 70°C Storage
Humidity:	95% Non-Condensing
Vibration & Shock:	MIL-STD-810F
Manufacturing:	RoHS Directive 2002/95/EC
Weatherproofing:	IP54

RF Transceiver	
Frequency:	433.92 MHz at 0.6 mW peak EIRP, FSK Modulated
Range:	400 ft. (122 m)
Air Protocols:	
SR-650-101-WW CN:DM	ISO 18000-7, EchoPoint, ANSI INCITS 256
SR-650-101 CN:DM	ISO 18000-7, EchoPoint, ANSI INCITS 256
SR-650-101 CN:ISO-ONLY	ISO 18000-7
SR-650-133-T-KIT	ISO 18000-7

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Features:

- ISO 18000-7 compliant active RFID reader
- Dual-mode model can read ISO tags and the three million ANSI INCITS 256 tags in active use in the U.S. DoD RF-ITV Network
- Compatible with Allied Military active RFID networks
- Approved for global use (433.92 MHz transmitter)
- Long-range, omni-directional communication enables effective monitoring of hundreds of items over a 400 ft. (122 m) radius
- FCC, ETSI, HERO and RoHS certified

Specifications (continued)

Tag Compatibility	
SR-650-101-WW CN:DM	ISO 18000-7, EchoPoint, ANSI INCITS 256
SR-650-101 CN:DM	ISO 18000-7, EchoPoint, ANSI INCITS 256
SR-650-101 CN:ISO-ONLY	All ISO 18000-7 tags
SR-650-133-T-KIT	All ISO 18000-7 tags

Digital	
Digital Memory:	On-board non-volatile memory of 512 Kbytes for interim tag data

Wired Communications	
Protocols:	UDAP over Ethernet, SaviNet over RS485, Diagnostics over RS232
Firmware:	Supports field updates

Power	
AC Source:	Universal Power Supply (92-250 VAC, 50/60 Hz, 300 mA maximum)
DC Source:	12-30 VDC, 500mA average

Approvals	
Radio Type Approval:	FCC Part 15, ETSI, EN 300 220
EMC & Immunity:	ETSI, EN 301 489
Product Safety:	UL60950/CSA C22.2 No. 60950/IEC/EN60950
Ordnance:	HERO Certified to a 4 in. (10.1 cm) safe separation distance

Accessories	
Mounting:	Savi SRA-1024 Heavy Duty Mounting Kit (not included)

CONTACT US

To learn more about the full range of Savi's solutions, please contact us at (888) 994-SAVI (7284), 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.