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.

LONG RANGE · ACTIVE RFID · ANSI INCITS 256

Components and Function

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Protective Features

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.

Kit Features

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).

Savi Fixed Reader (SR-650) 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 kit w/ rechargeable batteries

PHYSICAL

Dimensions & Weight	12 in. (30 cm) x 5.5 in. (14 cm); 4.2 lbs (1.9 kg)

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 & Range	433.92 MHz at 0.6 mW peak EIRP, FSK; Modulated
Air Protocols	400 ft. (122 m)
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

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

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

Key Features

- ISO 18000-7 compliant aRFID reader
- Dual-mode model reads ISO tags and all active ANSI INCITS 256 tags in RF-ITV Network
- Compatible with Allied Military aRFID networks
- Approved for global use (433.92 MHz transmitter)
- Omni-directional, long-range communication can monitor items over a 400 ft. (122 m) radius
- 512 Kb of memory available for tag data
- Polypropylene case with UV inhibitors
- Optional Savi SRA-1024 Heavy Duty Mounting Kit (not included)

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
- FCC, ETSI, HERO and RoHS certified

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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THE VALUE OF KNOWING