



Specification Sheet

Savi® Handheld Reader Kit with Intermec® Mobile Computer 7X1 Series



Built on Savi's active RFID technology, the Savi Handheld Reader Kit with Intermec Mobile Computer 7X1 Series is designed to help users quickly locate, identify and track supply chain assets in austere environments. The handheld kit can read from and write to active, data-rich RFID tags, and can also scan and process data from standard linear, matrix, 1D and 2D bar code. The handheld kit is packaged with options that provide specific components based on the needs of the customer.

The kit is comprised of:

- Intermec 741G/A(B) or 751G/A(B) Mobile Computer
- Intermec 7X1G/A(B) Accessories (Docking Station, Power Charger and Data Cables)
- Savi Mobile Reader (SMR-650)
- SmartChain® Mobile software application

The kit features the Intermec 7X1G/A(B) Mobile Computer, which is a special model of Intermec's powerful 700 Series of color mobile computers. The device features a full alphanumeric keypad and ergonomic design. The 7X1G/A(B) is available in two models, both of which support batch mode communications and offer integrated bar code scanning options. The 751G/A(B) also supports wireless LAN capabilities.

Specifications

Model Numbers

741G-KIT-C-533	Active handheld RFID reader using the Intermec 741G/A(B) and SMR-650; International version of SmartChain software; without Wi-fi radio
751-KIT-C-532	Active handheld RFID reader using the Intermec 751G/A(B) and SMR-650; DoD version of SmartChain software; with Wi-Fi radio

Memory and Storage

RAM Memory:	128 MB
Flash ROM:	1 GB (non-volatile memory holding application program, not physically accessible)
On-board ROM:	64 MB (non-volatile memory holding WinMobile 5.0 OS)

Physical

Dimensions:	7X1G/A(B) Mobile Computer: 7.5 in. (191 mm) x 3.5 in. (90 mm) x 2 in. (50 mm) SMR-650: (Length w/external antenna) 6.2 in. (159 mm) x 2.5 in. (64 mm) x 1 in. (25mm)
Weight:	7X1G/A(B): 20 ounces (568 g); SMR-650: 6.4 ounces (181 g) w/ clip
Display:	Reflective TFT daylight readable color display with CCFL frontlight, 240x320 pixels, 3.8 in. (97 mm) diagonal, touch panel
Keypad:	38 key w/full alphanumeric and backlight

Software

Operating System:	Windows Mobile 5.0
Application:	SmartChain Mobile
Firmware:	Supports Field Updates

Savi® Handheld Reader Kit with Intermec® Mobile Computer 7X1 Series



The kit also features the Savi Mobile Reader (SMR-650), which is an integrated mobile, low-profile, lightweight reader module used to commission, identify and configure Savi active RFID tags. Savi readers are a key component of RFID solutions for real-time, end-to-end visibility of goods and critical assets moving through the supply chain. Savi Mobile Readers provide greater flexibility to locate specific items and augment Savi Fixed Reader coverage with the operational flexibility provided by portability.

Features:

- ISO 18000-7 compliant active RFID handheld reader
- Battery operated, portable device for reading and writing ISO 18000-7 and ANSI INCITS 256 tags
- Short-range, low-frequency transmitter for commissioning tags
- Long-range, two-way UHF receiver/transmitter for tag wake up, read and write
- FCC, ETSI, HERO and RoHS certified

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.

Specifications (continued)

Environmental

Temperature:	-10°C to +50°C Operating; -40°C to +60°C Storage
Humidity:	95% Non-Condensing
Altitude:	Max 40,000 ft. (12.1km); Rate of change is 2,000 ft. (610 m) per minute
Electrostatic Discharge:	+/-8kV Contact Discharge, +/-15kV Air Discharge
Drop Survival:	Multiple 4 ft. (1.2m) drops
Vibration & Shock:	MIL-STD-810F
Weatherproofing:	IP64

Network

Interface:	Interface back to network requires mobile computer to be enabled with wireless or wired docking station (USB, Ethernet, WiFi)
------------	---

Wireless (UHF Transceiver)

Frequency:	433.92 MHz at 0.6 mW peak EIRP, FSK Modulated
Range:	150 ft. (46 m) line-of-sight reader and tag
Antenna:	Integrated External Whip
Air Protocol:	ISO 18000-7, EchoPoint, ANSI INCITS 256

Wireless (LF Transmitter)

Frequency:	123 kHz
Range:	Up to 3.5 ft. (1.1 m)
Antenna:	Integrated on-board ferrite core antenna
Protocol:	EchoPoint

Accessories

Mounting:	Mounting hardware and bracket attaches the Savi Mobile Reader to the Intermec (7X1G/A(B) Color Mobile Computer. Includes holster.
-----------	---

Approvals

Radio Type Approval:	FCC Part 15, ETSI, EN 300 220 (433.92 MHz), EN 300 330 (123 kHz)
EMC & Immunity:	IEC 60601, ETSI, EN 301 489
Product Safety:	AC Adapter to UL60950/CSA C22.2 No. 60950/IEC/EN60950
Ordinance:	HERO Certified (Unit will meet a 4 in./10.1 cm safe separation distance)
Hazardous Location:	UL 1604, Division 2, Class I, Groups A,B,C,D; Class II Groups F,G; Class III