

# Savi® Handheld Reader Kit with Intermec® CK70 Mobile Computer



Built on Savi's active RFID technology, the Savi Handheld Reader Kit with Intermec CK70 Mobile Computer with GPS 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 CK70 Mobile Computer
- Intermec CK70/71 Accessories (Docking Station, Power Charger and Data Cables)
- Savi Mobile Reader (SMR-650)
- SmartChain® Mobile software application

The kit features the Intermec CK70 Mobile Computer, which is a special model of Intermec's powerful 70 Series of color mobile computers. The device features a full alphanumeric keypad and ergonomic design. The CK70 is available in two models, both of which support batch mode communications and offer integrated bar code scanning options. The CK70 also supports wireless LAN capabilities.

## Specifications

Model Numbers	
Model Numbers	CLIN: 0002
CK70-KIT-C-532	Active handheld RFID reader using Intermec CK70 and SMR-650; SmartChain software; with Wi-Fi; with GPS
Memory and Storage	
Memory:	512 MB RAM
ROM:	1 GB Flash
	Customer-accessible micro-SD slot for removable memory cards up to 32GB
Physical	
Dimensions:	L X W X D: 23.7 X 8.0 X 4.3 cm (9.33 X 3.16 X 1.69 in)
Weight:	562 g (19 Oz) with battery
Width:	Grip area 6.42 cm (2.53 in)
Display:	8.9 cm (3.5 in) Transmissive VGA, 480 X 640 pixels, 65,536 (16 bit RGB) colors, high-durability touch screen, LED backlight, ambient light sensor
Software	
Operating System:	Microsoft Windows Embedded Handheld 6.5
Application:	SmartChain Mobile
Firmware:	Supports Field Updates
Environmental	
Temperature:	-20 °C to +60 °C operating; -30°C to +70°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:	+ / - 15 kV air discharge; + / - 8 kV direct discharge
Drop Survival:	Multiple 8 ft (2.4 m) drops
Vibration & Shock:	MIL-STD-810G
Weatherproofing:	IP67

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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
- 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

## Specifications (continued)

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
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	
Model SMRA-CK70-04:	HHI Holster
Model SMRA-CK70-01:	HHI Replacement Battery Charger Desktop Dock
Model SMRA-CK70-08:	HHI Replacement AC Power Adapter
Model SMRA-CK70-06:	HHI Replacement Rechargeable Battery
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 18 in./46.7 cm safe separation distance)
Hazardous Location:	UL 1604, Division 2, Class I, Groups A,B,C,D; Class II Groups F,G; Class III

## CONTACT US

To learn more about the full range of Savi's solutions, please email us at [info@savi.com](mailto:info@savi.com) or visit [www.savi.com](http://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 1,000 commercial companies around the world. Savi has been recognized by Frost & Sullivan as Company of the Year in 2015 for its sensor analytics solutions. For more information about Savi visit [www.savi.com](http://www.savi.com).