



# Get Better Asset Data Using Proven Sensor and Reader Hardware

## Your Asset Data Is Only As Good As the Hardware that Captures It

If your operations rely on the predictable, efficient movement of critical assets through a supply chain you need accurate, current data about the condition and location of those assets. Your ability to make operational decisions that minimize risks, help manage change, and improve efficiency and profitability depend on it.

The hardware you use to generate and capture your asset data has a significant effect on the quality of the information. If the hardware is not accurate or dependable, there will be gaps in the asset data that affect information accuracy and the effectiveness of your decisions.

Make sure you have confidence in the data you're using. Implement hardware that can reliably and accurately capture asset location and condition data even in complex and demanding environments.

## Gain Deeper Operational Insights and Greater Confidence

Savi sensor and reader hardware makes it possible for organizations like yours to rapidly establish a complete aRFID system in any environment. Technology advances including Savi's System-on-a-Chip™ let you support thousands of complex, simultaneous asset movements and ultimately collect more sensor data. You'll gain deeper operational insights and greater confidence in your decisions.

## 24 Years Of Proven Success in Hardware

As a pioneer in the development of active RFID technology, Savi's hardware is proven for 24 years to work in the harshest, most demanding conditions, including meeting the extensive requirements of the U.S. Department of Defense.

### SENSORS

Your choice of RFID sensor hardware will depend on a variety of requirements including cost constraints, memory capacity, broadcast frequency, transmit range, physical size, operating environment, and standards compatibility. Savi sensors enable you to access real-time information on the location of your assets and shipments, as well as their condition (temperature, humidity, etc.) and security status. Savi sensors have been battle tested globally for two decades, and organizations around the world rely on them to ensure their mission critical supplies reach their destination. Savi offers many types of aRFID sensors to cover a wide-range of requirements including:

**Data Rich Sensors** – store detailed asset information to track shipping containers, vehicles and other large assets

**Environmental Sensors** – protect sensitive perishable items by monitoring environmental conditions such as temperature, humidity, vibration and shock

**Security Sensors** – detect theft or tampering by monitoring the open/closed state of a shipping container door and the amount of light entering the container along with GPS for precise asset location

**Container Door Sensors** – monitor shipments in real-time in challenging environments using low profile tags

**Asset Sensors** – track both smaller- and larger-class assets with a small ruggedized form factor sensor when you need flexible mounting options.

## READER INFRASTRUCTURE

The RFID reader hardware you'll need to collect tracking data will depend on a number of factors specific to your application requirements. These factors include cost constraints, read range and read speeds, data storage capacities, and communication options available to transmit sensor data including WiFi, GPS, and GSM/GPRS. Savi provides both fixed and mobile aRFID readers depending on your network and application environment.

**Fixed Readers** – If you track items moving through gates and chokepoints or monitor assets within warehouses and yards you'll need a fixed reader infrastructure to accurately read and collect the data generated by RFID sensors. Savi's fixed readers capture this sensor data in real-time and at high volume to be forwarded to tracking or analytic applications such as Savi Tracking™ or Savi Consignment Management™. Using GPS position information, readers are automatically located to help you increase the speed and accuracy of set-up.

**Mobile/Handheld Readers** – When you need to locate specific assets in areas with minimal or no infrastructure an integrated, mobile, low profile, lightweight reader is required to commission, identify and configure sensors. Savi's mobile readers provide similar function to fixed readers but with the portability you need to interact with assets and shipments in almost any environment.

## PORTABLE DEPLOYMENT KITS

The Savi PDK™ allows teams to quickly set up a complete real-time aRFID system out-of-the-box and establish mobile operations for asset tracking, and cargo and personnel manifesting at any location and in any environment. The PDK is self-contained in a durable transit case weighing 25 pounds and includes a fully ruggedized tablet preloaded with read/write software applications, an RFID pod interrogator, NAL satellite modem with GPS, USB cable and power adapters.

## Integrate Hardware from Virtually Any Provider

If you need the flexibility to incorporate sensor, tag and reader infrastructure from other providers you'll value Savi's "tag agnostic" approach. Savi partners with third-party vendors to deploy and support the broadest range of hardware including passive and active RFID, GPS, GPRS and Satellite communications as well as Real Time Location Services offerings. Our sensor analytics platform allows you to easily integrate the data streams generated by sensor and reader hardware from virtually any provider. When you use Savi's sensor analytics solutions you'll continue benefiting from any RFID hardware investments you've already made. You can also take advantage of new sensor technologies as they become available – all in one seamless enterprise wide system.

## 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 250 commercial companies around the world. For more information about Savi visit [www.savi.com](http://www.savi.com).