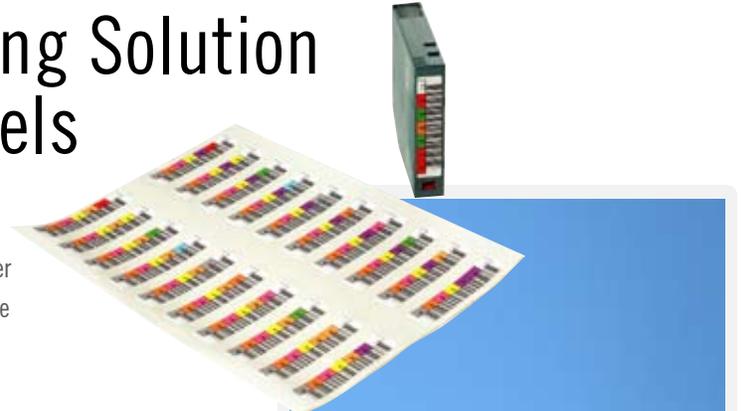# DataGuard rf™ Tape Tracking Solution Integrated RFID Volser Labels

With breakthrough engineering, Imation has coupled passive radio frequency identification (RFID) technology with a specially printed volume-and-serial-number or "vol-ser" identification into one robust, high quality label (patent pending in the U.S. and other countries).

Imation's DataGuard rf Integrated RFID volser Label is designed to be securely applied to each tape cartridge in the data center. At the heart of the label is Imation's custom designed antenna, which provides maximum read range, read accuracy and reliability. Imation's volser labels with integrated RFID technology enable UHF readers to quickly read each cartridge with 100% accuracy and total reliability, thus allowing data center personnel to more efficiently track every tape cartridge.

Imation's electronic product code (EPC) compliant UHF RFID tags meet environmental, drop, abrasive and load/unload industrial standards for data center libraries. In addition, Imation's DataGuard rf labels are designed to operate globally, allowing companies and OEMs to ship product worldwide using a single RFID tag type. The dual functionality barcode and RFID label gives the customer flexibility to integrate the tags and solution in existing libraries.

Increase Data Center Efficiency

Optimal Reliability

- Unlike typical two-step label manufacturing processes, Imation's one-step automated labeling process reduces human handling, which increases reliability while significantly decreasing read failure rates.
- All label materials from adhesive to chemical substrate are designed and validated to work together for maximum performance on a tape cartridge.
- Substrate material selection and design provide a buffer to cushion and protect the RFID chip from rough handling ensuring long life and peak performance.

Maximum Read Range

- Imation's custom designed antenna extends the read range to 6' on a single read and up to 20" on a case of 20 cartridges (under optimal conditions), significantly further than standard, off-the-shelf tags.
- Integrated with custom software, the antenna is tuned to optimize the read range while being read straight on or at angles of up to 45° off axis.

100% Read Accuracy

- The custom designed antenna coupled with the strategically placed inlay and select substrate materials results in a fast, accurate read that is lab tested and field proven.

Technical Specifications

RF Protocol
- EPC Class 1 Gen 2
- Worldwide operating frequency 860-960 MHz

Read rate
- 20 cartridges in less than 2 seconds

Read range
- up to 6' for a single cartridge
- up to 20" for a case of 20 cartridges

Environmental
- 25°C to 50°C recommended storage conditions
- 20% to 90% RH non-condensing

RoHS Compliant

ESD & Inlay Handling
- Human body model 1.5kV minimum
- Charge device mode 1.5kV minimum

Tag Sizes
- LTO, T10000   (17mm x 79mm)
- 3592   (12.04mm x 88.6mm)
- 3xxx, 9xxx   (10.34mm x 79.45mm)

Note: Inlays are sensitive to ESD. Please observe standard practices to keep the environment static charge to a minimum.

DataGuard rf™ Tape Tracking Solution
Integrated RFID Volser Labels

Extend Label Life

An added advantage to using Imation's RFID labels is that each label features an AquaGuard™ surface that will not smudge or smear. The AquaGuard surface securely locks the ink in place, extending the life of the label.

In addition, each label includes an "RF" designator for visual differentiation from non-RFID volser labels.

RFID enabled

Not RFID enabled

Ordering Information

DataGuard rf integrated RFID Volser labels are available in sheets of 20 tags. You may also purchase LTO, T10000, 3xxxx, 9xxxx and 3592 cartridges prelabeled with RFID tags from Imation. Contact your Imation Key Account Sales Manager for more information.

UPC	DESCRIPTION	PER CASE	UNIT
26675	DataGuard rf Integrated RFID Labels - LTO, T10000	25	Sheet
26677	DataGuard rf Integrated RFID Labels - 3xxx, 9xxx	25	Sheet
26676	DataGuard rf Integrated RFID Labels - 3592	25	Sheet

Don't be burdened by high failure rates, poor adhesion and limited read range.
Trust the best – Imation's DataGuard rf Integrated RFID volser Label.

To learn more about DataGuard rf volser Labels with RFID and other Imation removable data storage products, visit www.Imation.com.