

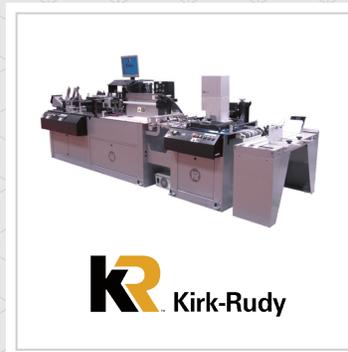
# ItemEncode™ Software

## Fast, Reliable RAIN RFID Tag Encoding

**ItemEncode is a flexible software system** that boosts the speed and data quality of RAIN RFID encoding machines while lowering labor and operating costs. Using a pipelined configuration of encoders, ItemEncode enables encoding machines to achieve high-speeds, advanced error correction and low operating costs. An ItemEncode system can encode up to 9,500\* tags/min and supports both IT- and chip-based serialization methods.

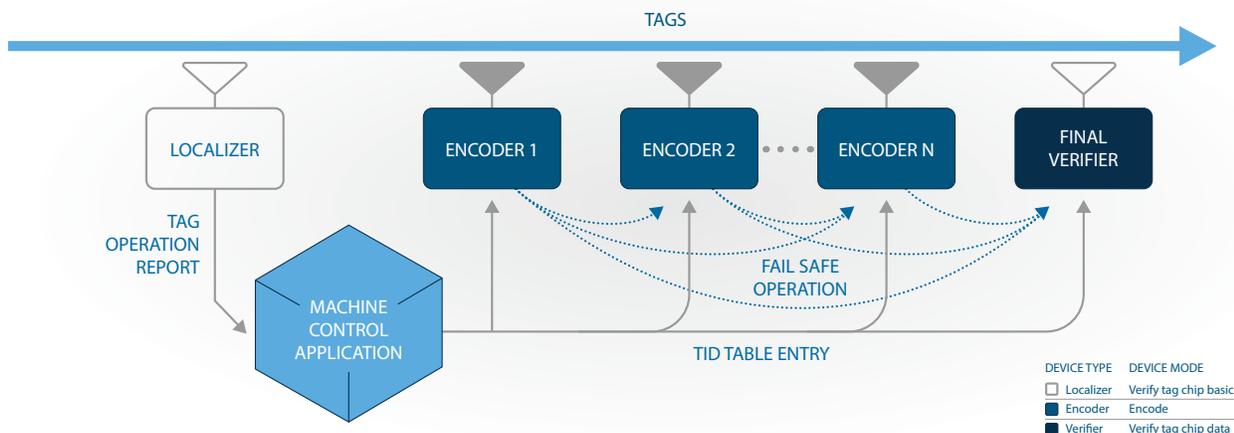
### ItemEncode Enabled Machine Manufacturers

Choose a high-speed encoding machine with ItemEncode software to meet the growing demand for serialized RAIN RFID tags and deliver fast order turn-around times to retail customers.



### ItemEncode Pipelined System

Machines that utilize Impinj ItemEncode software optimize tag encoding yield by using a pipelined configuration of encoders which share operational information and intelligently recover encoding failures—without slowing down encoding speed.



## Data Management Schemes

### Monza Self-Serialization

Encodes EPCs with the appropriate Monza Self Serialization formula

### IT Based Serialization

Encodes tags based on user configured sequential list

### Serial Number Range

Encodes EPCs with an auto-incrementing serial number (Supported number formats: *Hexadecimal & Decimal*)

### User Configurable Encoding Options

- > EPC (Up to 496 bits)
- > PC Word
- > User Memory (Up to 512 bits)
- > Access Password
- > Kill Password
- > Lock Config

## Host API Languages

C#

Java

C++

## Tag Chips Supported

Impinj Monza R6\*  
Impinj Monza 5  
Impinj Monza 4D  
Impinj Monza 4E  
Impinj Monza 4QT  
NXP UCODE 7  
Alien Higgs 4  
Alien Higgs 3

## Regions Supported

Region	Frequency Range
USA	902 to 928 MHz
European Union	865 to 868 MHz
Brazil	902 to 907.5 and 915 to 928 MHz
China	920 to 925 MHz
Hong Kong	920 to 925MHz
Japan	916.7 to 920.9 MHz
Korea	917 to 920.8 MHz
Latin America	902 to 928 MHz

\*ItemEncode software enables encoding speed up to 9,500 tags/minute when used with Monza R6 tag chips. Actual speeds are limited by machine's mechanical and RF isolation capability.