

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.

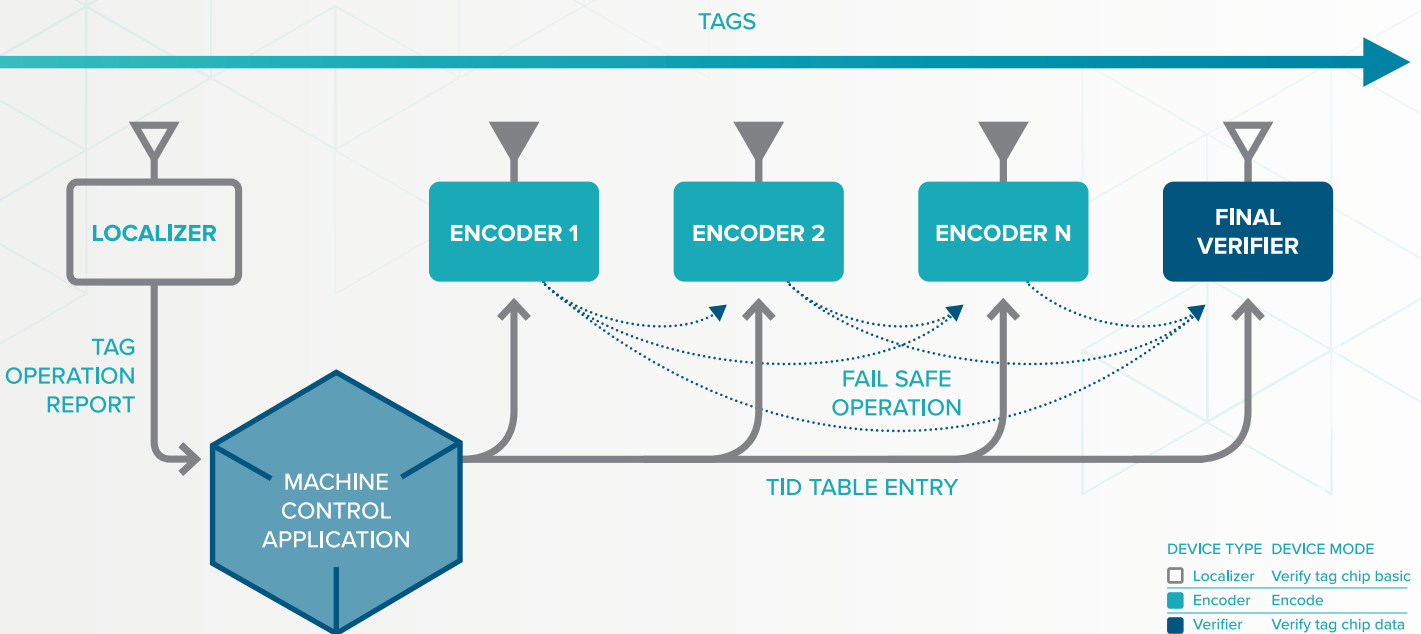


ITEMENCODE IS PART OF THE SOFTWARE
 LAYER OF THE IMPINJ PLATFORM

ItemEncode Pipelined System

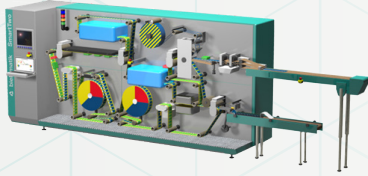
Machines that utilize Impinj ItemEncode software optimize tag encoding yield by using a pipelined configuration of encoders which share operational information and intelligently recover encoding failures—without slowing down encoding speed.

ItemEncode will track individual tags by their TID as they move through the pipeline, allowing all encoders to remain in sync with the encoding configuration for that particular tag.



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.



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

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 |

HOST API LANGUAGES

| | | |
|----|------|-----|
| C# | Java | C++ |
|----|------|-----|

TAG CHIPS SUPPORTED



- Impinj Monza S6-C
- Impinj Monza R6-P
- Impinj Monza R6*
- Impinj Monza 5
- Impinj Monza 4D
- Impinj Monza 4E
- Impinj Monza 4i
- Impinj Monza 4QT
- Impinj Monza X-2K
- Impinj Monza X-8K
- NXP UCODE 7
- Alien Higgs 4
- Alien Higgs 3

**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.*

