

Industrial Solution for Insertion, serialization, encoding and control of RAIN RFID Tags



Key Benefits

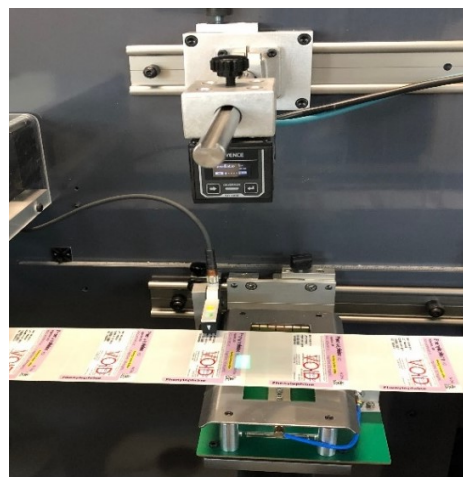
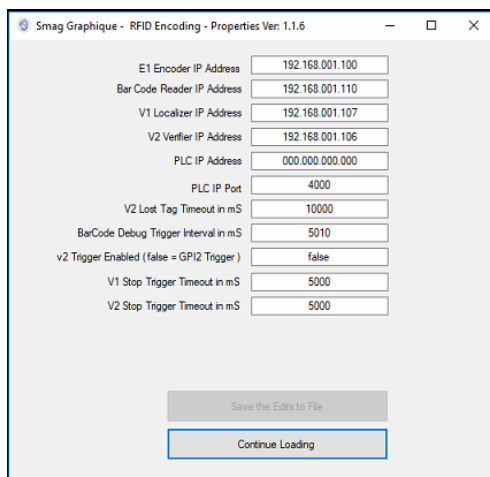
SMAG'S LIT – RFID
Label Identification Technology



- ❖ Turn-key delivery installed and tested
- ❖ Enables full control of Intelligent labels production roll to roll
- ❖ Insertion / Assembly for Finished Label converting | ICONNECT-C
- ❖ Marking / GS1 Serialization & Encoding / Control | ICONNECT-E with LIT-RFID Integration
- ❖ Controls quality and Integrity of GS1 compliant encoded data
- ❖ Production of ready to use labels with individually encoded Tags
- ❖ Fully modular expandable solution with multiple options
- ❖ Customized Windows based control Software Tailored to suit specific customer requirements
- ❖ Matching of printed and encoded data (optional)
- ❖ High speed and Accurate performance: Up to 3000 Tags/minute (60m/minute web speed)
- ❖ Powered by Impinj Speedway Revolution (RFID) readers, and near field linear Antennas

Functionalities

- ❖ Supports EPC memory encoding all UHF RAIN RFID Gen 2 Tags
- ❖ Operator Friendly touch enabled Windows based Software designed for customized applications
- ❖ Designed for Customized applications
- ❖ Available in three different versions:
- ❖ Single reader version: Normally used for Inspection and verification only of EPC encoded data for finished labels. Splicing table and PLC control allowing the removal of defective Tags.
 - Dual reader version: Includes barcode scanner for data transfer for serialized EPC encoding and Tag verification. This version is designed to work as a production line with the RFID Tag insertion module.
 - Tree-reader version: Allows for Tag verification before Encoding, including all the functionality of Dual reader version. Normally designed to operate as a production line in conjunction with the RFID Tag insertion module.
- ❖ All three versions feature RFID Tag Inventory, serialized barcode scanning, and data verification



ICONNECT - C



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❖ Additional options:

- Variable data printing (GS1 compliant 2D barcode and Data bar) as well as human readable data.
- Marking of defective Tags for off-line inspection removal
- Validation and verification of printed data with GS1 compliant EPC encoded data

❖ Single RFID reader Tag-verification version:

- Normally used for Inspection and performance verification only
- Reads and records TID and EPC data for finished labels
- Identify defective (or poor performance) RFID Tags for marking with PLC control allowing the removal of defective Tags at the splicing table.
- Single Impinj Speedway Revolution RFID reader (R420) with 4 antenna ports, 24VDC
- Sliding Single Near field antenna with shielding plate, attenuators, and cables
- Triggering software and electronics for PLC interface and alarms included
- Ethernet communication network / protocol
- Windows computer small format c/w windows 10 professional
- Inventory control, data logging and database management included

❖ Tag specifications:

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

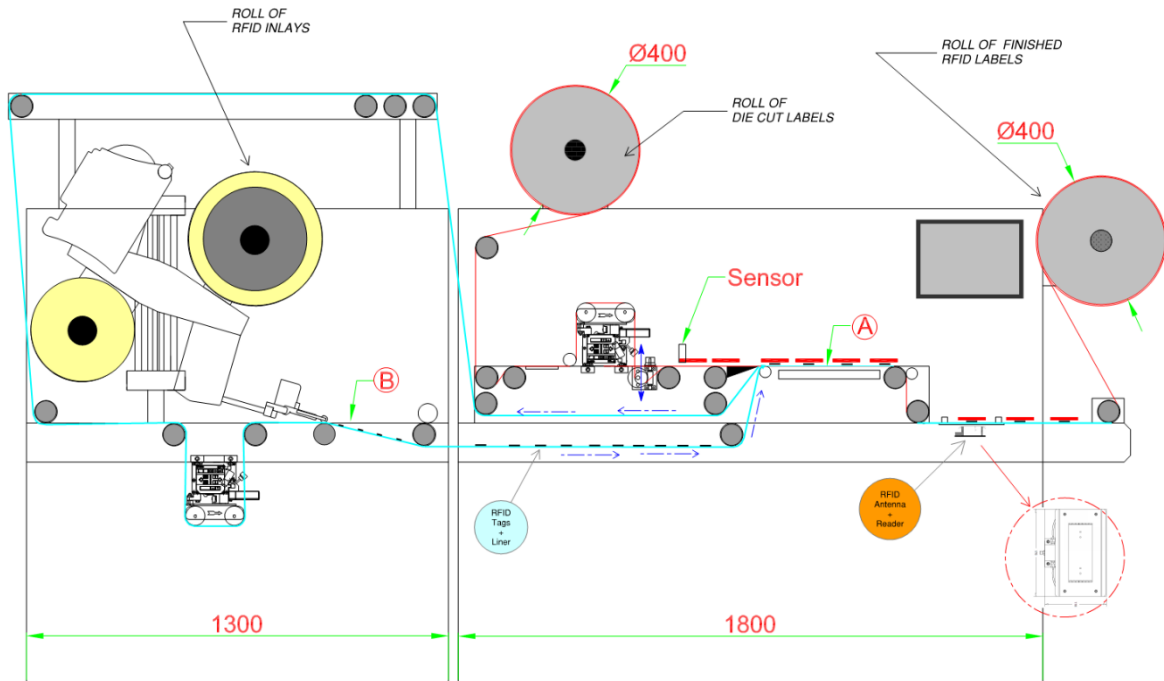
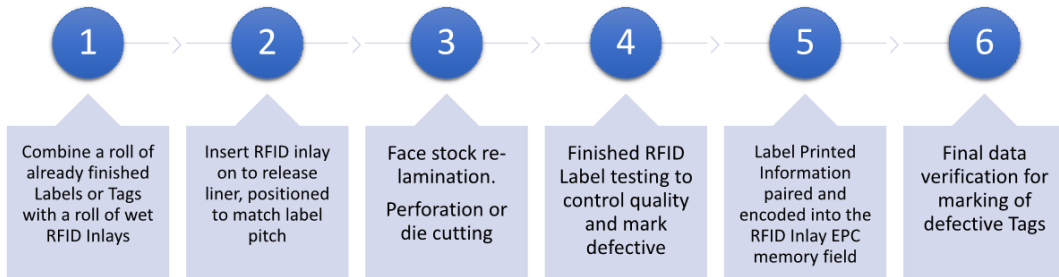


- Impinj Monza S6-C
- Impinj Monza R6-P
- Impinj Monza R6*
- Impinj Monza 5
- Impinj Monza 4D
- Impinj Monza 4E
- Impinj Monza 4i
- Impinj Monza 4QT
- Impinj Monza X-2K
- Impinj Monza X-8K
- NXP UCODE 7
- Alien Higgs 4
- Alien Higgs 3

**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.*



Converting a Finished Label into an Intelligent Label using RFID technology



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