

Scanning Devices

Load Builder Systems
Enabling RFID Prototypes
Finding EPC Value
Compliance

Three Objectives for EPC Systems

Collect Information for Documentation and Labeling

LoadBuilder collects and organizes information from RFID tag readers, barcode readers and sensors at three levels: orders, pallets and units. LoadBuilder is self-contained, offering incremental operation without disrupting current distribution operations and can generate identification documentation for follow-on shipping and distribution use.

Associate EPC and Barcode Data

RFID technology adds a dimension to barcode systems: Unique Unit Level Identification. LoadBuilder associates EPC and Barcode data to provide a means to reference new EPC information to established barcode data. It provides a vehicle to answer questions like *"What range of EPC Id's are on a specific product manufactured at a specific time?"* or *"What product has this tag?"*

Experiment, Explore, Learn, Find Value

While RFID technology has been available for some time, the Electronic Product Code is evolving -- always a source of surprises and the unexpected. Issues like tag placement, radio interference, tag programming and ghost tags need addressing and resolution. LoadBuilder detects counts and logs errors: unreadable, missing and multiple tags as well as traditional exceptions in material handling. Order and Error logs provide data to answer questions such as *"Which products have the most difficulty with RFID tagging?"* or *"Where is the best RFID value?"*



LoadBuilder Systems

Modular

LoadBuilder is a modular system, allowing users to select, integrate and control standard components including barcode readers, RFID tag readers, presence sensors and label printers.

RFID Tool Kit

LoadBuilder is accompanied by a suite of PC-based RFID tools from RFID Reader configuration aids, Tag Programming Procedures and Verification Tools and Barcode Tests. Scanning Devices also offers a range of supporting services to help manufacturers implement RFID systems.

Connected Information

LoadBuilder is based on Microsoft Windows-based PC's. It provides a Windows graphic user interface and generates files compatible with Microsoft Office Products from data collected during normal operation.



LoadBuilder – Enabling EPC

Launch RFID Technology Now

LoadBuilder - Standard Components Interconnected

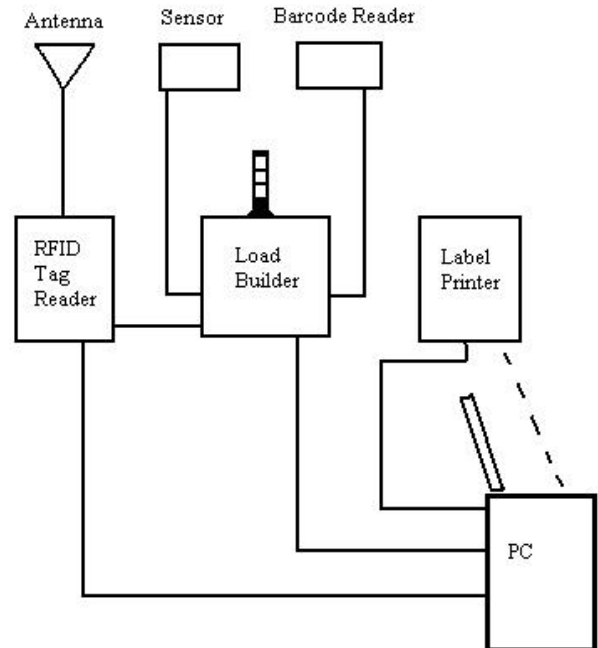
RFID Tags

LoadBuilder reads and programs EPC Class 1 RFID tags and reads 5 common barcode symbol types.

Operations

LoadBuilder offers four operating modes:

- Read all tags all the time - detect and record all tagged units within radio range.
- Read tags with sensor trigger - reads only when units are at a read station.
- Read unit tags and unit barcodes, associating the two data elements - requires single file operation typical of barcode-based systems, reads one unit tag and one barcode when the sensor is triggered.
- Read unit tags and single pallet barcodes, associating the two data elements - reads multiple units on a single pallet with sensor trigger.



Label Printing

LoadBuilder supports RFID label printing, generating conforming shipping labels or other label supply with embedded RFID tags. The print tag ID is logged with order data.

Information Distribution

PC based data files make distribution easy. Order summaries and error logs are available for distribution by any means available to Microsoft Windows users. Construct the processing methods most familiar to evaluate RFID performance based on information captured and organized by LoadBuilder.

Implementation

Scanning Devices can help. Here are four steps that you should not overlook.

- Education and training-- designate your RFID leader.
- Application strategies – where and how to start, where to find timely RFID value
- System design and component selection – a specific prototype with LoadBuilder
- Implementation and evaluation – learning and going on.

Contact Scanning Devices to initiate application plans and learn how we can help.

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