

## Silverline Solution

### ON-DEMAND RFID METAL ASSET TAGGING



**ZEBRA**

The Silverline Solution is ideal for on-demand RFID asset tagging for all surfaces, including metal and liquid-filled containers. The benefits of RFID are well known in industries from manufacturing and retail to transportation and healthcare. RFID systems—labels, printers and readers—enable inventory and equipment tracking in real time, helping you make maximum use of virtually all your assets.



#### Solving the Problem: Easily Identify Metal Assets and Liquid-filled Containers

There has, however, been one glaring RFID gap. RFID read performance deteriorates significantly when a traditional RFID label is applied on a metal surface or to a liquid-filled asset. This limits the use of RFID technology for tracking valuable assets like tools, automotive and machine parts, IT equipment, returnable containers, medical devices and equipment and liquid filled containers.

#### An Innovative Total Solution

To produce an effective read range, tags must be slightly thicker than traditional RFID labels, making them incompatible with standard thermal RFID printers. Now Zebra

and Confidex have partnered to release the first solution for printing and encoding on-demand RFID labels for all your metal and liquid-filled assets.

#### The Ideal Combination

Zebra and Confidex have worked together to develop this unique solution consisting of a redesigned ZT410 RFID printer, optimized Silverline labels and high quality Zebra ribbons. This combination provides for excellent print quality, encoding accuracy and ease of solution deployment and use. Silverline labels, offered exclusively by Zebra, are available in three sizes to meet the needs of a wide variety of applications.



#### Silverline Solution At A Glance

- Total Solution: Silverline RFID tags and Zebra ZT410 Silverline printer
- Provides RFID labels that work directly on all surfaces
- Prints and encodes labels for metal and liquid-filled assets
- Choose from three types of RFID labels: standard, slim and micro
- Read range of up to 5m
- Reliable, flexible and scalable



#### Vertical Market Asset Tracking

##### Manufacturing

- Asset tracking of tools, fixtures, metal parts, returnable containers

##### Healthcare

- Asset tracking of wheel chairs, beds, oxygen canisters, IV pumps and medical diagnostic instruments

##### IT Equipment Tracking

- Asset tracking of mobile computers, printers, antennas, infrastructure components

## Silverline Solution Specifications

### CUSTOM ZT410 SILVERLINE RFID LABEL PRINTER

#### CUSTOM ZT410 SILVERLINE FEATURES

- Printhead assembly specifically designed for use with Silverline labels
- Adjustable sensor assembly to support both standard media and increased thickness of Silverline labels

#### RFID

- Prints and encodes labels with a minimum pitch of 0.6"/16 mm
- Supports labels compatible with UHF EPC Gen 2 V2/ISO 18000-6C
- Compliant with Global RFID radio to support multinational deployments
- Automatically eliminates complex RFID placement guidelines with adaptive encoding technology
- Variable inlay placement supports a range of inlay positions for maximum media flexibility
- Track performance with RFID job-monitoring tools
- Supports industry standard multi-vendor chip-based serialization (MCS)
- Supports block permalocking of user memory compatible with ATA Spec 2000
- Integrated ThingMagic® RFID reader/encoder

#### STANDARD FEATURES

- Print Methods: Thermal transfer and direct thermal
- Construction: Metal frame and bi-fold metal media cover with enlarged clear viewing window
- Side-loading supplies path for simplified media and ribbon loading
- Element Energy Equalizer™ (E3™) for superior print quality
- Communications: USB 2.0, high-speed, RS-232 Serial, 10/100 Ethernet, Bluetooth 2.1, USB Host
- Back-lit, multiline graphic LCD display with intuitive menu and easy-to-use keypad for quick operation
- Bi-colored status LEDs for quick printer status
- ENERGY STAR® qualified

#### PRINTER SPECIFICATIONS

<b>Resolution</b>	203 dpi/8 dots per mm
<b>Memory</b>	256 MB SDRAM memory 512 MB on-board linear Flash memory
<b>Maximum Print Width</b>	4.09"/104 mm
<b>Maximum Print Speed</b>	14 ips/356 mm per second
<b>Media Sensors</b>	Dual media sensors: transmissive and reflective

#### MEDIA CHARACTERISTICS

<b>Maximum Media Roll Size</b>	8.0"/203 mm O.D. on a 3"/76 mm I.D. core
<b>Media Thickness</b>	Optimized to print Silverline labels up to 0.8 mm thick. The custom ZT410 RFID Silverline printer can also print on all labels appropriate for the standard ZT410
<b>Media Types</b>	Continuous, die-cut, notch, black-mark

#### RIBBON CHARACTERISTICS

<b>Outside Diameter</b>	450 m: 3.2"/81.3 mm O.D. on a 1.0"/25.4 mm I.D. core
<b>Standard Length</b>	1476/450 m
<b>Width</b>	2.00"/51 mm to 4.33"/110 mm
<b>Ribbon</b>	Recommended ribbon for use with Silverline labels is 5095 Performance Resin Ribbon

#### CONFIDEX SILVERLINE SERIES RFID LABELS

<b>RFID Protocol</b>	UHF EPC Gen 2 V2/ISO 18000-6C
<b>Operational Frequency</b>	Available in either: • EU 865 – 869 MHz • US 902 – 928 MHz
<b>Memory Configuration</b>	Monza 4QT: EPC 128 bit; User 512 bit; TID 96 bit

#### SILVERLINE CLASSIC LABEL SPECIFICATIONS

<b>Read Range</b>	Up to 5 m / 16 ft
<b>Dimensions</b>	100 mm W x 40mm H x 0.8 mm thick/ 3.94" W x 1.57" H x 0.03" thick
<b>Tags Per Roll</b>	500

#### SILVERLINE MICRO LABEL SPECIFICATIONS

<b>Read Range</b>	Up to 1.2 m / 4 ft
<b>Dimensions</b>	55 mm W x 14mm H x 0.8 mm thick/ 2.17" wide x 0.55" high x 0.03" thick
<b>Tags Per Roll</b>	1,000

#### SILVERLINE SLIM LABEL SPECIFICATIONS

<b>Read Range</b>	Up to 4 m / 13 ft
<b>Dimensions</b>	110 mm W x 13 mm H x 0.8 mm thick/ 4.33" W x 0.51" H x 0.03" thick
<b>Tags Per Roll</b>	1,000

#### SILVERLINE BLADE LABEL SPECIFICATIONS

<b>Read Range</b>	Up to 4.5 m / 15 ft 60 mm W x 25 mm H x 1.2 mm thick/ 2.36" W x 0.98" H x 0.047" thick
<b>Tags Per Roll</b>	500

Specifications subject to change without notice.