



Silverline Solution

On-demand RFID metal asset tagging

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 four 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

For more information on Zebra's Silverline solution
www.zebra.com/silverline
or call your local Zebra Partner

Printer specifications

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

Media characteristics

Maximum Media Roll Size	8.0"/203 mm O.D. on a 3"/76 mm I.D. core
Media Thickness	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
Media Types	Continuous, die-cut, notch, black-mark

RIBBON characteristics

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

Confidex Silverline Label Specifications

Confidex silverline series RFID labels	
RFID Protocol	EPC Global Class1 Gen2 ISO 18000-6C
Operational Frequency	Global 865-928 MHz
Memory Configuration	Monza 4i™ : EPC 256bit, User 480bit, TID 96bit
Silverline Classic label specifications (PN: 10027757)	
Read Range	Up to 6m/20ft
Dimensions	100 mm W x 40mm H x 1.1 mm thick / 3.94" W x 1.57" H x 0.04" thick
Tags Per Roll	350
Silverline Micro label specifications (PN: 10027755)	
Read Range	Up to 1.5m/5ft
Dimensions	45mm W x 13mm H x 1.1mm thick / 1.77" wide x 0.51" high x 0.04" thick
Tags Per Roll	800
Silverline slim label specifications (PN: 10027756)	
Read Range	Up to 4 m / 13 ft
Dimensions	100mm W x 13mm H x 1.1mm thick / 3.94" W x 0.51" H x 0.04" thick
Tags Per Roll	800
Silverline blade label specifications (PN: 10028598)	
Read Range	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
Tags Per Roll	500
Memory Configuration	Monza R6 : EPC 96bit, TID 96bit with 48 bit serial number



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