

# PRODUCT DATASHEET

## Confidex Silverline™



Versatile UHF RFID label with excellent printing capabilities to be used at any surface including metal

### ELECTRICAL SPECIFICATION

#### Device type

Class 1 Generation 2 passive UHF RFID transponder

#### Air interface protocol

EPCGlobal Class1 Gen2 ISO 18000-6C

#### Operational frequency

EU 865 – 869 MHz

US 902 – 928 MHz

#### IC type

Impinj Monza 4QT™

Impinj Monza 4E™ (upon special request)

#### Memory configuration

With Monza 4QT: EPC 128 bit; User 512 bit; TID 96 bit

With Monza 4E: EPC 496 bit; User 128 bit; TID 96 bit

#### EPC memory content

Same EPC in every label as a default

#### Read range (2W ERP)\*

On metal up to 4,5 m / 15 ft

Liquid containers up to 4,5 m / 15 ft

Freeair up to 4 m / 13 ft

#### Applicable surface materials\*

All surfaces

#### Attachment on curved surface\*

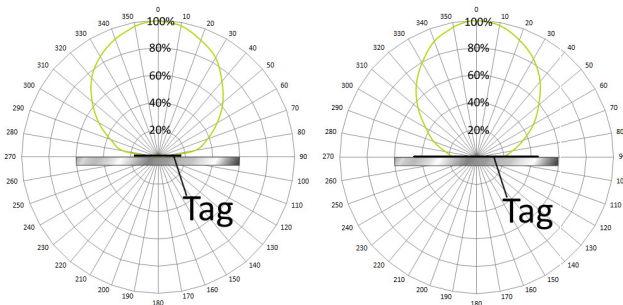
Label can be attached on curved surface in any orientation. For read range compared to even surface please see the table below.

	TAG			
On metal	R200mm	R200mm	R200mm	R200mm
	82%	110%	108%	79%
On plastic	R100mm	R100mm	R100mm	R100mm
	65%	115%	121%	60%
On metal	R200mm	R200mm	R200mm	R200mm
	103%	75%	99%	95%
On plastic	R100mm	R100mm	R100mm	R100mm
	110%	50%	97%	88%

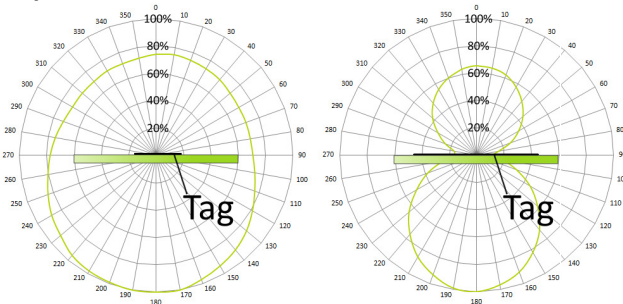
\* Read ranges are theoretical values that are calculated for non-reflective environment, in where antennas with optimum directivity are used with maximum allowed operating power according to ETSI EN 302 208 (2W ERP). Different surface materials may have an effect on performance.

### RADIATION PATTERNS

#### On metal



#### On plastic



### MECHANICAL SPECIFICATION

#### Tag materials

Printable white synthetic face layer, resin ribbon recommended.

#### Background adhesive

Permanent adhesive for general purpose use

#### Weight

2 g

#### Delivery format

500 pcs on reel

#### Pitch on reel

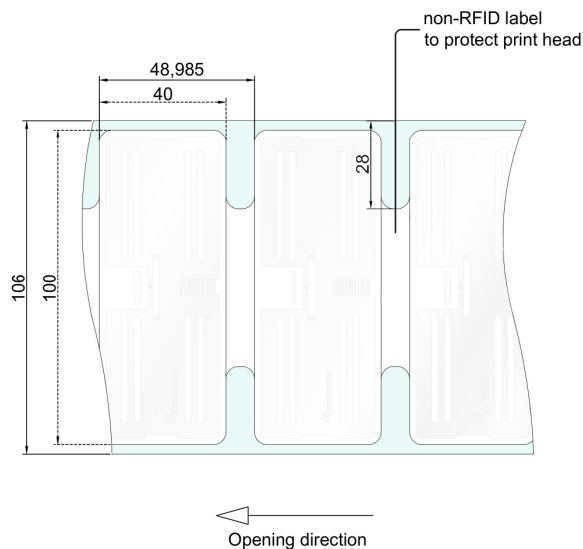
48,985 mm / 1,93"

#### Reel core inner diameter

76 mm / 3"

#### Tag dimensions

100 x 40 x 0,8 mm / 3.94 x 1.57 x 0.03 in



## ENVIRONMENTAL RESISTANCE

### Operating temperature

-35°C to +70°C / -31°F to +158°F

### Ambient temperature

-35°C to +70°C / -31°F to +158°F

### Water resistance

Good, tested 65 hours in 1m deep water (IP68)

### Washing resistance

Industrial pressure washing not recommended

### Chemical resistance

No physical or performance changes in:

- 168h Sulfuric acid (10%, pH 2) exposure
- 168h Motor oil exposure
- 168h Salt water (salinity 10%) exposure
- 1h NaOH (10%, pH 13) exposure

Acetone should be avoided

### Storage condition

6 months in +20°C / 50% RH

*Values in the table are the best recommendations; resistance against environmental conditions depends on the combination of all influencing factors, exposure duration and chemical concentrations. Thus, product's final suitability for certain environmental conditions is recommended to be tested. Contact Confidex for more specific information.*

## PERSONALIZATION OPTIONS

### Pre-encoding

- Customer specific encoding of EPC or user memory. Locking permanently or with password.

### Customized printing

- Customer specific layout including logo, text, numbers, barcodes etc.

## PRINTER COMPATIBILITY

### Datamax-O'Neil

- M-Class
- H-Class

### Sato

- CL4 series
- CL6 series
- GT4 series
- M84Se print engine series

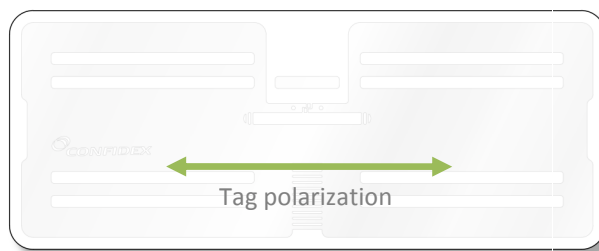
### Toshiba

- B-EX4T

### Zebra

- RZ400
- RZ600

## INSTALLATION INSTRUCTIONS



Ideal installation conditions are +20°C (+68°F) / 50% RH. For exceptional conditions, please contact Confidex. Bond strength can be improved with firm application pressure. It is extremely important to clean the surface before the attachment for obtaining the maximum bond strength.

During attachment to the identified item, please avoid touching the background adhesive. If the location on the asset needs to be changed, please use a new tag instead of re-placing the used one; the adhesion will suffer from the re-placement.

Minimum bending diameter of the Confidex Silverline™ is defined to be 50mm. Do not bend the label above the limit. Never touch on the location of the IC. IC chip is sensitive electrical component and can be damaged if unexpected pressure is applied on the chip.

## ORDER INFORMATION

**Product number:** 3000702

**Product name:** Confidex Silverline™ M4QT ETSI

**Product number:** 3000703

**Product name:** Confidex Silverline™ M4QT FCC

For other versions, additional information and technical support please contact Confidex Ltd.

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