

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*

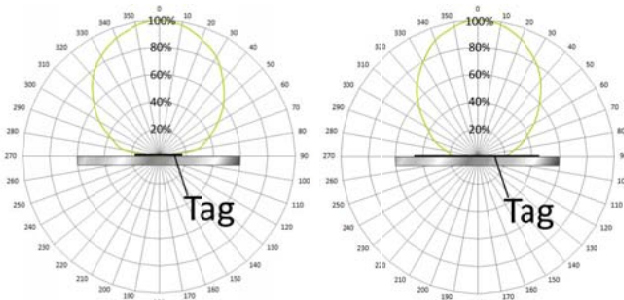
Label can be attached on curved surface in any orientation. For read range compared to even surface please see the table below.

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

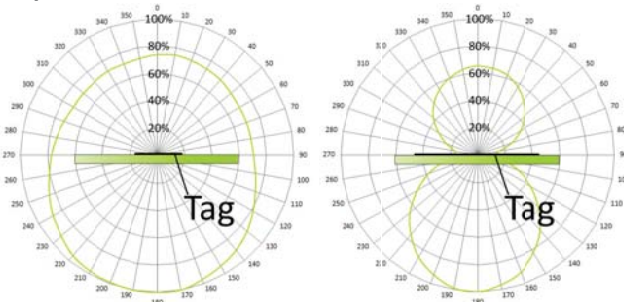
* Read ranges are theoretical values that are calculated for non-reflective environment, in where antennas with optimum directivity are used with maximum allowed operating power according to ETSI EN 302 208 (2W ERP). Different surface materials may have an effect on performance.

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

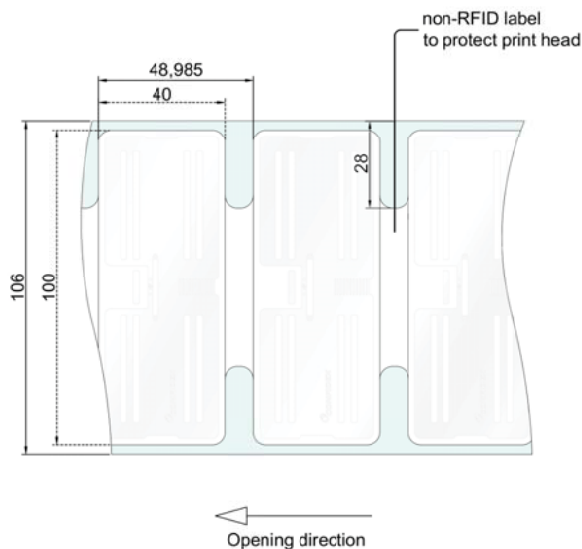
48,985 mm / 1,93"

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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