

PRODUCT DATASHEET

Confidex Survivor™



All-surface tag for logistics, transportation and yard management applications with top performance

ELECTRICAL SPECIFICATION

Device type

RAIN RFID / EPCglobal Gen2v2

Operational frequency

ETSI 865 - 869 MHz
FCC 902 - 928 MHz

ETSI IC options and memory configurations

Impinj M780™

- EPC 496 bit; User 128 bit; TID 96 bit
NXP UCODE G2iM+

- EPC 448 bit; User 640 bit; TID 96 bit

FCC IC options and memory configurations

Impinj M780™

- EPC 496 bit; User 128 bit; TID 96 bit
Impinj Monza4QT

- EPC 128 bit; User 512 bit; TID 96 bit

EPC memory content

Unique number encoded as a default

Read range (2W ERP)*

M780:

- On metal up to 27 m / 90 ft
- Other materials up to 10 m / 33 ft

M4QT / G2iM+:

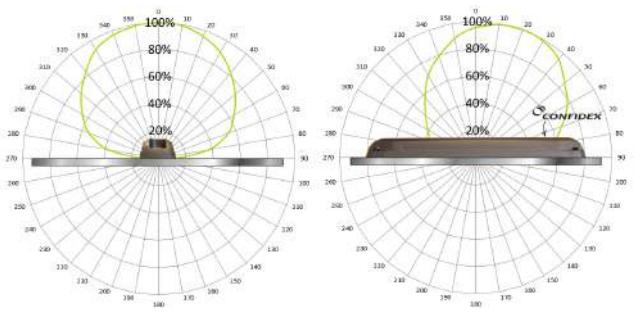
- On metal up to 18 m / 60 ft
- Other materials up to 16 m / 52 ft

Applicable surface materials*

All surfaces

* Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may influence performance.

RADIATION PATTERNS



MECHANICAL SPECIFICATION

Tag materials

High quality engineering plastics.

Weight

31 g

Delivery format

Single

Amount in box

100 pcs

Dimensions

155mm x 26mm x 14,5mm / 6.1" x 1.02" x 0.57"



ENVIRONMENTAL RESISTANCE

Operating temperature

-35°C to +85°C / -31°F to +185°F

Ambient temperature

-35°C to +85°C / -31°F to +185°F

IP classification

IP68

Weather ability

Good, including UV-resistance and sea water

Chemical resistance

No physical or performance changes in:

- 168h Motor oil exposure
- 48h Salt water (salinity 10%) exposure
- 48h Sulfuric acid (10%, pH 2) exposure
- 48h NaOH (10%, pH 13) exposure

Generally good resistance with moderate concentrations of acids, alcohols, alkalis, detergents and cleaners.

Acetone should be avoided

Expected lifetime

Years in normal operating conditions

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 data label

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

Customized laser engraving

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

INSTALLATION INSTRUCTIONS

Confidex Survivor™ can be attached with several fixing methods:

1. High performance acrylic adhesive (not included by default)

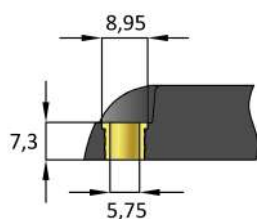
When background adhesive is ordered the tag is delivered with adhesive attached. Clean and dry the surface for obtaining the maximum bond strength. Ideal application temperature is from +21°C to +38°C (+70°F to +100°F), bond strength can be improved with firm application pressure and moderate heating from +38°C to +54°C (+100°F to +130°F). Installation at temperatures below 10°C (50°F) is not recommended.

2. Other adhesive fixings
 - Polyurethane adhesives
 - Epoxies
 - Silicone sealants

Structural adhesives like 3M DP410 provide very high bond strength and resistance against mechanical stress. When tag is attached with sealant adhesive, insert a layer of sealant under the tag and press the tag on the surface. Increase the bond by adding extra sealant from the tag holes. Adhesive type and thickness may have an effect on tag performance. Insert maximum 2mm layer of adhesive under the tag. Please refer to adhesive supplier for exact fixing instructions and test the performance with chosen adhesive.

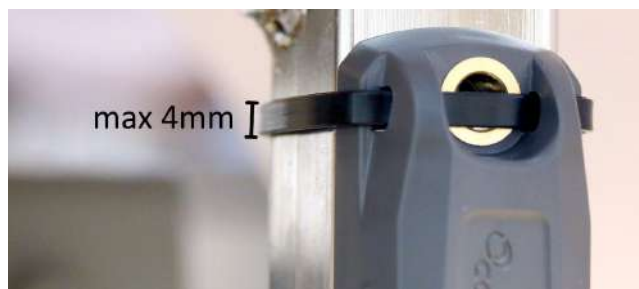
3. Mechanical fixing

Mechanical fixing is recommended to be used in every application that includes risk for high mechanical stress or low temperature during tag fixing. Mechanics are designed for M5 sized screw. Refer the dimensional picture for screw selection.

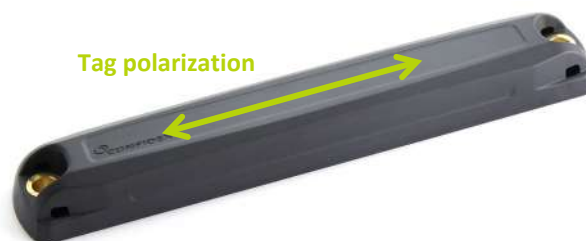


4. Cable tie

Confidex Survivor™ has specific design that allows also plastic or metallic cable ties to be used for fixing. Maximum width of tie is 4mm. Please see picture below for an example.



Polarization of Confidex Survivor™ is according to its longest dimension. This should be taken into account when using linearly polarized reader antennas.



ORDER INFORMATION

Product number: 3004277

Product name: Confidex Survivor™ M780 ETSI

Product number: 3001137

Product name: Confidex Survivor™ G2iM+ ETSI

Product number: 3004278

Product name: Confidex Survivor™ M780 FCC

Product number: 3000856

Product name: Confidex Survivor™ M4QT FCC

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

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