PRODUCT DATASHEET

Confidex Survivor™



All purpose tag for logistics and transportation applications with top performance

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

NXP UCODE G2XM

Memory configuration

EPC 240 bit; User 512 bit; TID 64 bit

EPC memory content

Unique number encoded as a default

Read range (2W ERP)*

EU on metal up to 9 m / 30 ft

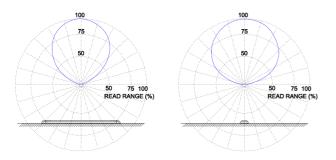
US on metal up to 11 m / 36 ft

Applicable surface materials*

Metallic surfaces

RADIATION PATTERNS

On metal



MECHANICAL SPECIFICATION

Tag materials

High quality engineering plastics.

Weight

25 g

Delivery format

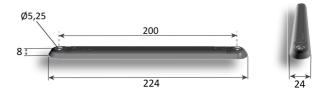
Single

Amount in box

250pcs

Dimensions

224 x 24 x 8 mm / 8.8 x 0.94 x 0.31 in



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

IP67

Weather ability

Good, including UV-resistance and sea water

Vibration resistance

- JESD22-B103B, service condition 2; vibration that is aligned with tag height (z-axis)

Chemical resistance

No physical or performance changes in:

- 168 hour Motor oil exposure
- 168 hour Salt water exposure (salinity 10%)
- 168 hour Sulfuric acid (10%, pH 2) exposure metal background laminate may loosen.
- 24 hour NaOH (10%, pH 13) exposure metal background laminate may corrode which affects non-metal performance.

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.

^{*} 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.

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.

Customized laser engraving

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

INSTALLATION INSTRUCTIONS

Polarization of Confidex Survivor TM is according to its longest dimension.



Confidex Survivor[™] can be attached with several fixing methods:

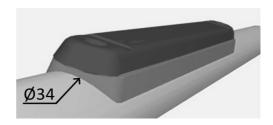
- 1. Mechanical fixing
 - Cable ties (metal or plastic)
 - Screws (size M5)
 - Pop rivets (size 4,8 mm)

Mechanical fixing is recommended to be used in applications that includes risk for high mechanical stress or low temperature during tag fixing. During fixing make sure there is no air gap left in between the metal surface and tag.

- 2. Adhesive fixing
 - Silicone sealants

Silicone sealants like Dow Corning AS 7096 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. Confidex SurvivorTM is not sensitive to silicone sealant thickness under or on the sides of the tag. Please refer to silicone sealant supplier for exact fixing instructions.

- 3. Adidtional fixing tools
 - Concave part



Additional concave part can be used when Confidex SurvivorTM should be attached on curved surface, such as small pipes and metal profiles with round cross section (diameter 34mm). With concave part the tag attachment is easy and during the use the concave part will give even better mechanical structure for the tag. Concave part and tag are delivered separately and they will be combined during the tag assembly. Concave part is attached together with tag using same mechanical fixing.

ORDER INFORMATION

Product number: 3000064

Product name: Confidex Survivor[™] ETSI G2XM

Product number: 3000065

Product name: Confidex SurvivorTM FCC G2XM

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

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