PRODUCT DATASHEET

Confidex Steelwave Micro™



Miniature tag for a wide variety of IT asset management applications

ELECTRICAL SPECIFICATION

Device type

Class 1 Generation 2 passive UHF RFID transponder

Air interface protocol

EPCGlobal Class1 Gen2 ISO 18000-6C

Operational frequency

Global 865-928 MHz

US 902-928 MHz

IC type

Global: Impinj Monza 4QTTM

US: Alien Higgs3[™] (upon special request)

Memory configuration

With Monza 4QT: EPC 128 bit; User 512 bit; TID 96 bit With Higgs 3: EPC 96-496 bit; User 64-512 bit; TID 96 bit

EPC memory content

Unique number encoded as a default

Read range (2W ERP)*

Global version:

EU on metal up to 3,5 m / 11 ft EU off metal up to 1 m / 3 ft

US on metal up to 3,3 m / 11 ft

US off metal up to 1 m / 3 ft

US version:

on metal up to 6 m / 20 ft $\,$

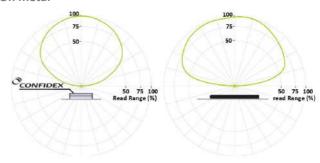
off metal up to 2,5m / 8 ft

Applicable surface materials*

Ideal application on metal, works on any material

RADIATION PATTERNS

On metal



MECHANICAL SPECIFICATION

Tag materials

High quality engineering plastics. Face syntheric material.

Weight

2 g

Delivery format

Single

Amount in box

1500pcs

Dimensions

38 x 13 x 3 mm / 1.5 x 0.5 x 0.12 in



ENVIRONMENTAL RESISTANCE

Operating temperature

-20°C to +85°C / -4°F to +185°F

Ambient temperature

-20°C to +85°C /-4°F to +185°F

IP classification

IP67

Chemical resistance

No physical or performance changes in:

- 2 hour Motor oil exposure
- 2 hour Salt water (salinity 10%) exposure

Additionally, short time exposure resistance against sulfuric acid. Acetone and sodium hydroxide 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). EU = 865 - 868 MHz, US = 902 - 928 MHz. 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 etc.

INSTALLATION INSTRUCTIONS

Confidex Steelwave MicroTM is designed to be attached with high performance 3M acrylic adhesive that is delivered by default on the tag background.

When mounting the tag with its adhesive background, 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.



To achieve the optimal performance please locate the tag on metal like shown above. Ideally the tag is placed on large even metal surface with direct metal contact underneath the whole tag.

ORDER INFORMATION

Product number: 3000427

Product name: Confidex Steelwave MicroTM Global M4QT

Following product is available upon special request:

Product number: 3000180

Product name: Confidex Steelwave MicroTM FCC Higgs3

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

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