

# 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 4QT™

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

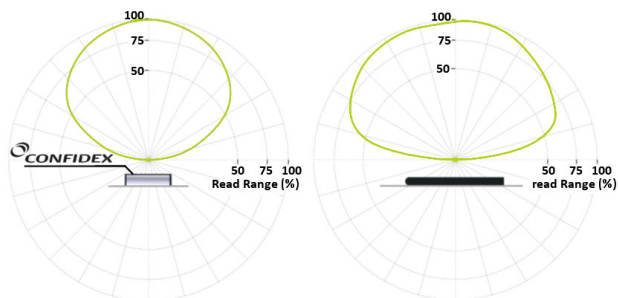
#### Applicable surface materials\*

Ideal application on metal, works on any material

\* 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.

### RADIATION PATTERNS

#### On metal



### MECHANICAL SPECIFICATION

#### Tag materials

High quality engineering plastics. Face synthetic material.

#### Weight

2 g

#### Delivery format

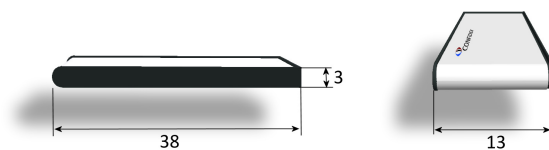
Single

#### 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.*

## 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 Micro™ 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.



For optimal performance leave metal to the right side of tag

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 Micro™ Global M4QT

Following product is available upon special request:

**Product number:** 3000180

**Product name:** Confidex Steelwave Micro™ FCC Higgs3

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

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