

# PRODUCT DATASHEET

## Confidex Steelwave Micro II™



Small-sized asset tag with versatile attachment options and unparalleled performance.

### ELECTRICAL SPECIFICATION

#### Device type

RAIN RFID / EPCglobal Gen2v2

#### Operational frequency

Global 865-928 MHz

#### IC options and memory configurations

Impinj M780™

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

Impinj Monza 4QT™

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

Impinj Monza 4E™

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

#### EPC memory content

Unique number encoded as a default

#### Read range (2W ERP)\*

M780:

- On metal up to 7 m / 23 ft
- Off metal up to 2 m / 7 ft

M4E / M4QT

- On metal up to 4 m / 13 ft
- Off metal up to 1 m / 3 ft

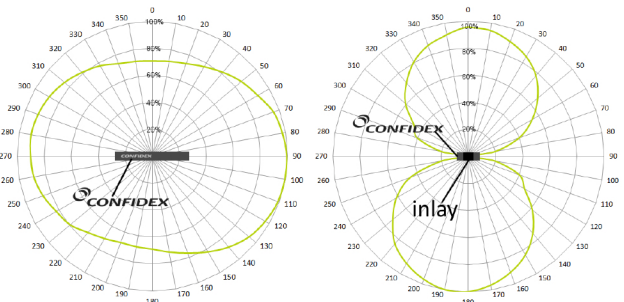
#### Applicable surface materials\*

Works on any material

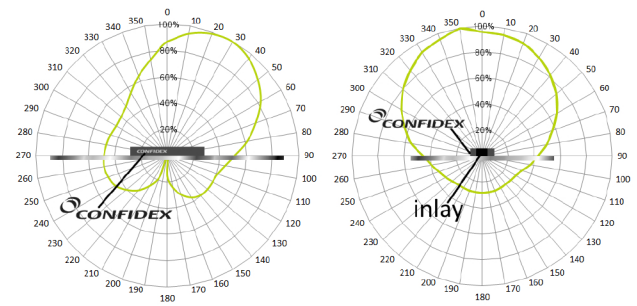
\* Read ranges are theoretical values that are calculated for non-reflective environment, in where antennas with optimum directivity are used with maximum allowed operating power according to ETSI EN 302 208 (2W ERP). Different surface materials may have an effect on performance.

### RADIATION PATTERNS

#### Freeair



#### On metal



### MECHANICAL SPECIFICATION

#### Tag materials

Engineering plastics and synthetic face layer

#### Background adhesive

High performance acrylic adhesive

#### Weight

2 g

#### Delivery format

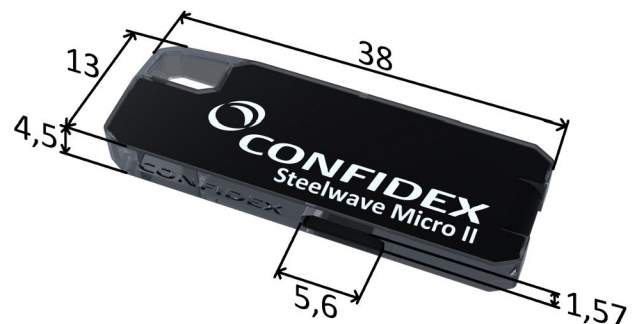
Single

#### Amount in box

1000pcs

#### Dimensions

38 x 13 x 4,5 mm / 1.5 x 0.5 x 0.17 in



### ENVIRONMENTAL RESISTANCE

#### Operating temperature

-20°C to +70°C / -4°F to +158°F

#### Ambient temperature

-20°C to +70°C / -4°F to +158°F

#### IP classification

IP67

#### Chemical resistance

No physical or performance changes in:

- 2 hour Salt water exposure (salinity 10%)

- 2 hour Motor oil exposure

Additionally, short time exposure resistant 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

Steelwave Micro II can be attached with several fixing methods:

- High performance acrylic adhesive (included)
- Hanging with tethering string
- Cable tie through the tag

To achieve the optimal performance in metal applications please leave metal on the tag's left side like shown in image below. Ideally the tag is placed on large even metal surface with direct metal contact underneath the whole tag.



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.

## ORDER INFORMATION

**Product number:** 3004227

**Product name:** Confidex Steelwave Micro II™ M780

**Product number:** 3000587

**Product name:** Confidex Steelwave Micro II™ M4QT

Following product is available upon special request:

**Product number:** 3000619

**Product name:** Confidex Steelwave Micro II™ M4E

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

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