

 **rfidcanada**
PRODUCT DATASHEET
Confidex Steelwave Micro II



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

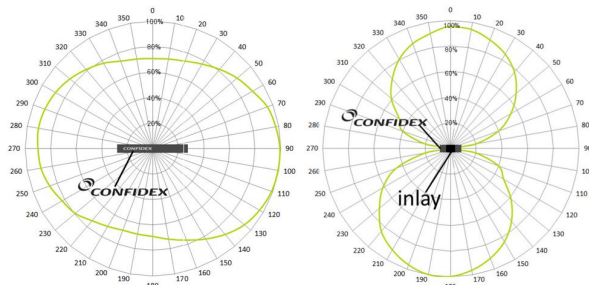
ELECTRICAL SPECIFICATION

- Device type
 - Class 1 Generation 2 passive UHF RFID transponder
- Air interface protocol
 - EPCGlobal Class1 Gen2 ISO 18000-6C
- Operational frequency
 - Global 865-928MHz
- IC type
 - Impinj Monza4QT™
 - Impinj Monza 4E™ (upon special request)
- Memory configuration
 - With Monza 4QT: EPC 128 bit; User 512 bit; TID 96 bit
 - With Monza 4E: EPC 496 bit; User 128 bit; TID 96 bit
- EPC memory content
 - Unique number encoded as a default
- Read range (2W ERP)*
 - on metal up to 5 m / 16 ft
 - off metal up to 1,5 m / 5 ft
- Applicable surface materials*
- Works on any material

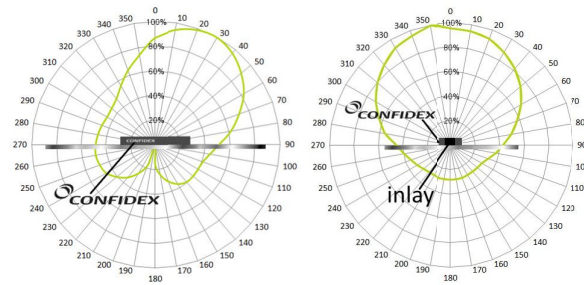
* Read ranges are theoretical values that are calculated for non-reflective environment, in where antennas with optimum directivity are used with maximum allowed operating power according to ETSI EN 302 208 (2W ERP). Different surface materials may have an effect on performance.

RADIATION PATTERNS

Freeair

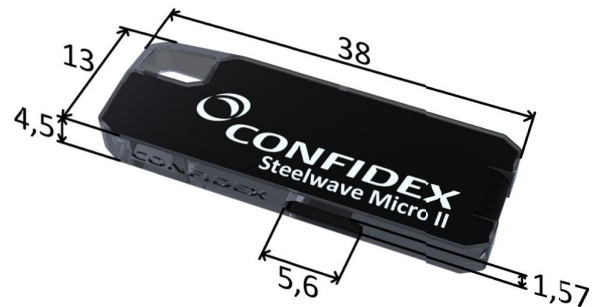


On metal



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.



For more information, visit: www.rfidcanada.com
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ORDER INFORMATION

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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