PRODUCT DATASHEET

Confidex Steelwave Micro™

Miniature tag for a wide variety of IT asset management applications

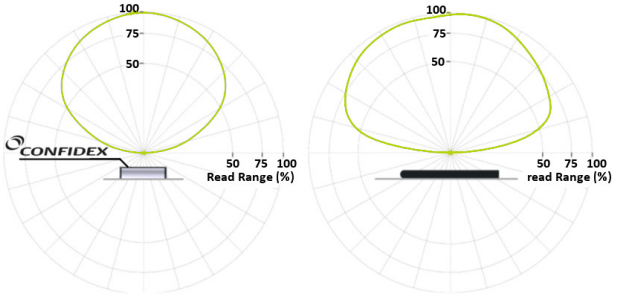
ELECTRICAL SPECIFICATION

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.

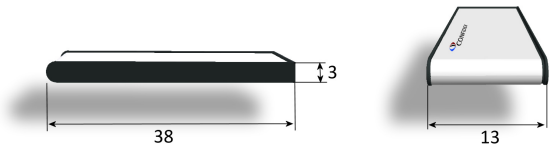
RADIATION PATTERNS

On metal



MECHANICAL SPECIFICATION

Tag materials
High quality engineering plastics. Face 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.

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contact@confidex.com www.confidex.com

PERSONALIZATION OPTIONS

Pre-encoding

- Customer specific encoding of EPC or user memory. Locking permanently or with password.

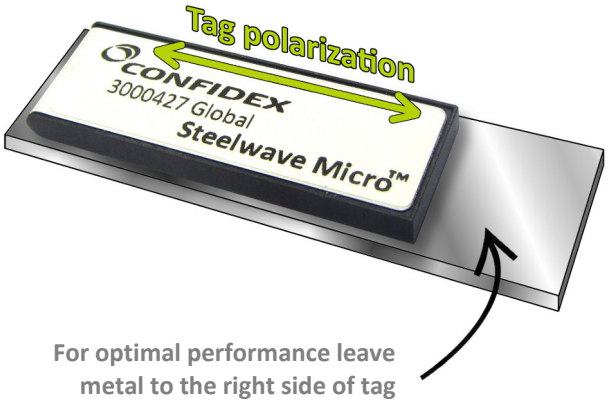
Customized data label

- 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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