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 Monza 4QT™
  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

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: 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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