

Confidex Ironside Microï NFC



Ruggedized NFC Tag for harsh use cases including impacts, chemicals and moisture

ELECTRICAL SPECIFICATION

- Device type
 - NFC Forum Type 2
- Air interface protocol
 - ISO 14443A
- Operational frequency
 - 13.56 MHz
- IC type
 - NXP NTAG203
- Memory configuration
 - User memory 144 Bytes
- Readrange*
 - Mobile phone up to 30mm
 - Fixed reader up to 70mm
- Applicable surface materials*
 - Works on any material, also on metal

*Read ranges are measured in laboratory environment and there can be some variation in real application. Also used surface material might affect the read range.

MECHANICAL SPECIFICATION

- Tag materials
 - High quality engineering plastics
- Weight
 - 4,3 g
- Delivery format
 - Single, 500pcs in box
- Dimensions
 - 27 x 27 x 5,5 mm / 1.06 x 1.06 x 0.22 in



ENVIRONMENTAL RESISTANCE

- Operating temperature
 - 35°C to +85°C / -31°F to +185°F
- Ambient temperature
 - 35°C to +85°C / -31°F to +185°F
- IP classification
 - IP68
- Chemical resistance
 - No physical or performance changes in
 - 168h Motor oil exposure
 - 168h Salt water (salinity 10%) exposure
 - 5h Sulfuric acid (10%, pH 2) exposure
 - 1h NaOH (10%, pH 13) exposure
 - Contact with acetone 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.
- Customized data label
 - ~ Customer specific layout including logo, text, numbers, barcodes etc.
- Customized laser engraving
 - ~ Customer specific layout including logo, text, numbers, barcodes etc.

INSTALLATION INSTRUCTIONS

Confidex Ironside Micro™ can be attached with several fixing methods:

1. 3M 300LSE high performance acrylic adhesive (not included by default)

When background adhesive is ordered the tag is delivered with adhesive attached. 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.

2. Other adhesive fixings
 - ~ Polyurethane adhesives
 - ~ Epoxies
 - ~ Silicone sealants

Silicone sealants like Dow Corning AS 7096 provide very high bond strength and resistance against mechanical stress. When tag is attached with sealant adhesive, insert a layer of sealant under the tag and press the tag on the surface. Increase the bond by adding extra sealant from the tag holes. Please refer to silicone sealant supplier for exact fixing instructions.

3. Mechanical fixing
 - ~ Screws (size M3)
 - ~ Pop rivets
 - ~ Plastic rivets (size 3mm)

Mechanical fixing is recommended to be used in every application that includes risk for high mechanical stress or low temperature during tag fixing. During fixing make sure there is no air gap left in between the metal surface and tag.

ORDER INFORMATION

Product number: 3000539

Product name: Confidex Ironside Micro™ NFC NTAG203

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

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For more information, visit: www.rfidcanada.com

Email: info@rfidcanada.com

+1 905-513-8919

