BEONTAG IRONSIDE MICRO NFC

beontag

ⓘ Description

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

Electrical specifications

Device type
NTAG213: NFC Forum Type 2
SLIX2: NFC Forum Type 5

Air interface protocol
NTAG213: ISO 14443A
SLIX2: ISO 15693

Operational frequency
13,56 MHz

IC type
NXP NTAG213
NXP ICODE SLIX2

Memory configuration
With NTAG213: User memory 144 bytes
With SLIX2: User memory 2528 bits

Read range*
With NTAG213:
Mobile phone up to 3cm
Fixed reader up to 7cm

With SLIX2:
Mobile phone up to 3cm
Fixed reader up to 29cm

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 specifications

Tag materials
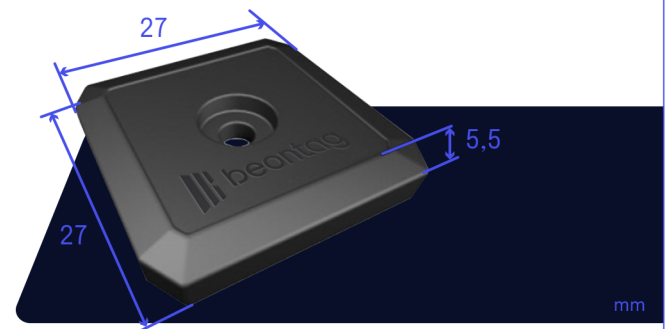High quality
engineering plastics

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

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.

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 Beontag for more specific information.

Installation instructions

Beontag Ironside Micro NFC 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: **3001300**
Product Name: **Beontag Ironside Micro NFC NTAG213**

Product number: **3002976**
Product Name: **Beontag Micro II Ironside Micro NFC SLIX2**

For other versions, additional information and technical support please contact Beontag.

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From the science of graphic and label materials, RFID and wireless IoT enablers, we create solutions across the value chain to deliver digital transformation for businesses around the world.

Sustainability is at the core of what we do and we strongly believe that by substituting non-renewable materials and innovating through more sustainable and renewable products, we act as an ESG enabler for our customers' value chain.

Beontag is one of the world's leading providers of RFID and wireless IoT solutions, being present in more than 40 countries with 7 R&D centers and 2,000 employees, in constant development of technological and sustainable solutions designed to connect items, and gain efficiency and end-to-end traceability

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