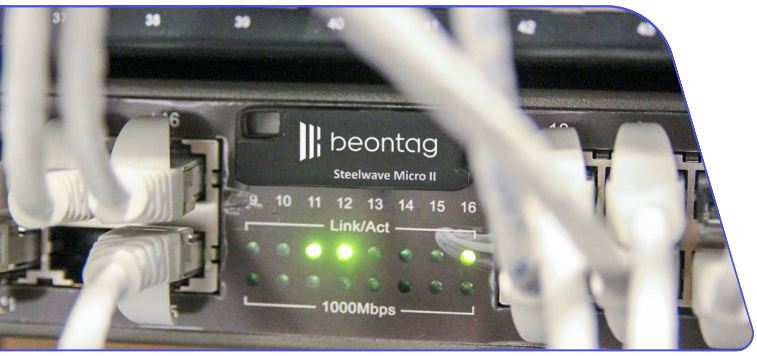
Product Datasheet

STEELWAVE MICRO II



Description

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

Electrical specifications

Device type
UHF RFID / EPCglobal Gen2v2

Operational frequency
Global 865-928MHz

IC options and memory configurations
Impinj M780™
- 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 7 m / 23 ft

Applicable surface materials*
Works on any material

* Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may influence performance.

Mechanical specifications

mm

Tag materials
Engineering plastics and synthetic face layer

Background adhesive
High performance acrylic adhesive

Weight
2 g

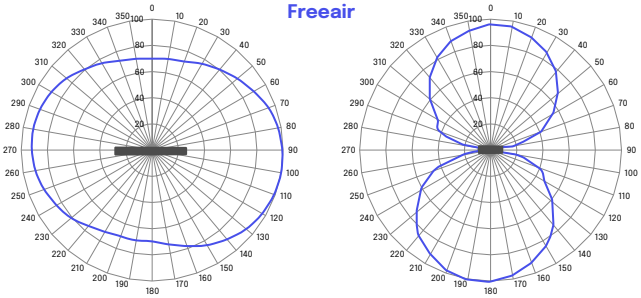
Delivery format
Single

Amount in box
1000 pcs

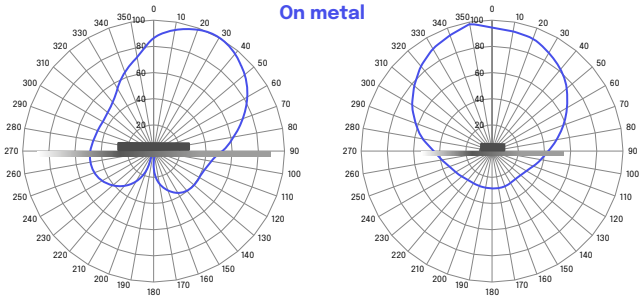
Dimensions
38 x 13 x 4,5 mm / 1.5 x 0.5 x 0.17 in

Radiation patterns

Freeair



On metal



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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 Beontag for more specific information.

Installation instructions

Steelwave Micro II can be attached with several fixing methods:

1. High performance acrylic adhesive (included)
2. Hanging with tethering string
3. 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.

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.

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.

Order information

Product number: **3004227**
Product Name: **Steelwave Micro II M780**

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

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About Beontag

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.

V. 1.3 - NOVEMBER 2024

CONTACT US FOR MORE INFORMATION:
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