Product Datasheet

BEONTAG VIKING CLASSIC QUUPPA

Quuppa Approved

Description

Beontag Viking Classic Quuppa is supporting positioning system from Quuppa which is based on the latest Bluetooth technology and the angle-of-arrival (AoA) methodology. It is designed to work seamlessly with Quuppa developed locators and applications. **Beontag Viking Classic Quuppa** have passed Quuppa's validation process and is accepted as Quuppa Approved product.

Electrical specifications

Device type
Bluetooth® Low Energy beacon, Battery powered

Wireless interface protocol
Quuppa proprietary protocol (tag library v1.2)

Compliancy (Declaration of Conformity)
Europe (CE), UK (UKCA), USA (FCC), Canada (IC), Australia/New Zealand (ACMA), South-Korea (KC), Japan (MIC), Ukraine (UkrSEPRO), Brazil (ANATEL)

Operational frequency
ISM: 2401 - 2482 MHz
Includes Quuppa Proprietary Channels (2401/2482 MHz)

SOC
Nordic Semiconductor NRF52832

Memory configuration
512 kB FLASH, 64 kB RAM

Configuration interface
Quuppa locators and Quuppa Site Planner software

Sensors*
Built-in temperature sensor, hall switch and accelerometer sensor

Sensitivity / Max transmit power
-96 dBm / +4 dBm

Read range**
Up to 100 m / 330 ft.

Battery type (total capacity)
2 x CR2477 (2000mAh) coin batteries

Applicable surface materials
Can be attached to any surface

* Temperature sensor is located inside the housing, which limits real time measurement of the ambient temperature.
** Read ranges can vary significantly depending on the mounting surface and environment.

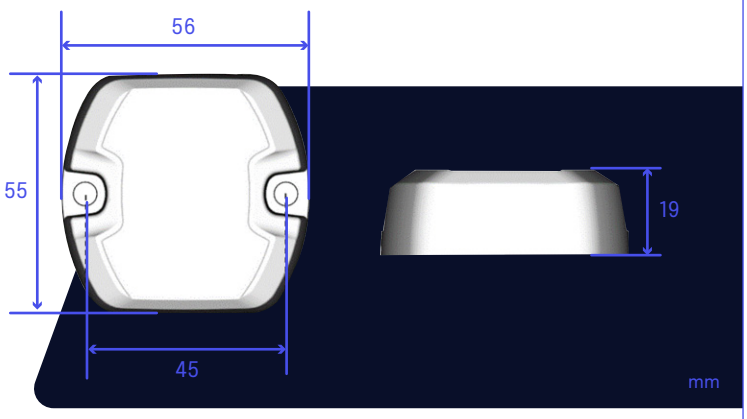
Mechanical specifications

Housing material
High quality PC/ASA, white RAL9003 (15% recycled)

Enclosure IP class
IP69K

Weight
45 g

Tag dimensions
56 x 55 x 19 mm / 2.20 x 2.13 x 0.75 in (M5 size hole)



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Environmental resistance

Operating temperature
-20˚C to +60˚C / -4˚F to +140˚F
EN 60068-2-14: 2009, Test N: Change of temperature

Vibration resistance
EN 60068-2-6: 2008, Test Fc: Vibration, 10G
EN 60068-2-27: 2009, Test Ea: Shock, 20G

ESD immunity
±8 kV according to EN 61000-4-2 (air discharge)
±4 kV according to EN 61000-4-2 (contact discharge)

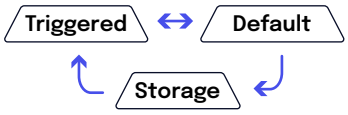
Chemical resistance***
No physical or performance changes in:
- 168h Motor oil exposure
- 48h Salt water (salinity 10%) exposure
- 48h Sulfuric acid (10%, pH 2) exposure
- 48h NaOH (10%, pH 13) exposure

Generally good resistance with moderate concentrations of acids, alcohols, alkalis, detergents, and cleaners. Acetone should be avoided

***Values 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.

Operating Modes

Quuppa



Beontag Viking Classic Quuppa tag utilizes Quuppa proprietary frame formats, and the functional logic consist of 3 different states of which it can operate and shift between: **Triggered**, **Default** and **Storage**.

Beontag Viking Classic Quuppa tag is activated by shaking it, which changes the tags operational state from **storage** to **triggered**. After a defined timeout, if tag has not been active, it moves to a **Default** state, where it stays wake-up and moves back to the **Triggered** state, if activated again. After a longer timeout in **Default** state, the tag goes to power saving mode in the **Storage** state, where it can be triggered again by shaking it.

Beontag Viking Classic Quuppa comes with storage settings by default. Before deployment, it must be configured with Quuppa Site Planner software, and it can be personalized with a custom label to ease the deployment and tag identification in the field.

Installation instructions

1. Mechanical fixing – Screw
Mechanical fixing is recommended to be used in every application that includes risk for high mechanical stress or low temperature during tag fixing. Screw size M5 is to be used for fixing.

2. Mechanical fixing – Cable tie
Plastic or metallic cable ties can also be used for fixing **Viking™**. Maximum width of cable tie is 4 mm.

3. High performance acrylic adhesive
When mounting the tag with adhesive, clean and dry the surface for obtaining the maximum bond strength.

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Order information

3003108 Beontag Viking Classic Quuppa
- White, default configuration and no label

3003221 Beontag Viking Classic Quuppa Sample Kit
- Contains 5 pcs item 3003108

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

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

CONTACT US FOR MORE INFORMATIONS:
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