PRODUCT DATASHEET
Confidex Viking Quuppa™

Reliable industrial grade Bluetooth® Low Energy beacon for industrial identify, sense and locate applications.

ELECTRICAL SPECIFICATION

Device type
Bluetooth® Low Energy beacon

Air interface protocol
Bluetooth® 4.2
NFC: ISO/IEC 14443A

Compliancy
CE certified
FCC-ID: 2AMK9-CFXBLE-1

Operational frequency
ISM: 2402 - 2480 MHz
NFC: 13.56 MHz

SOC
Nordic Semiconductor NRF52832

Memory configuration
512 kB FLASH, 64 kB RAM

Configuration interface
NFC interface for fast deployments and configuration

Sensor*
Built-in temperature sensor; other sensors by request

Sensitivity
-96 dBm sensitivity (Bluetooth® Low Energy)

Read range**
Up to 200 m / 650 ft. Measured on and off metal.

Battery type
2 x CR2477 coin battery for maximal lifetime

Applicable surface materials
Can be attached to any surface

MECHANICAL SPECIFICATION

Encapsulation materials
High quality PC/ASA

Weight
45 g

Delivery format
Single

Tag dimensions
56 x 54 x 19 mm / 2.20 x 2.13 x 0.75 in

ENVIRONMENTAL RESISTANCE

Operating temperature
-20°C to +60°C / -4°F to +140°F

Water resistance
Good, tested 5 hours in 1m deep water (IP68)

Vibration resistance
JESD22-B103B, service condition 2; 3-axis vibration with 10G acceleration

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

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

Expected lifetime***
Up to 5 years (depending on operating mode)

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.
OPERATING MODES

Quuppa

Confidex Viking™ beacon utilizes Quuppa frame format ensuring straightforward implementation on Quuppa location system utilizing Bluetooth technology and the angle-of-arrival (AoA) methodology.

Confidex Viking™ Quuppa passed testing and is Quuppa Approved.

INSTALLATION INSTRUCTIONS

Confidex Viking™ Quuppa can be attached with several fixing methods:

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 Confidex Viking™ Quuppa. Maximum width of cable tie is 4 mm.

3. High performance acrylic adhesive (optional)

When mounting the tag with adhesive, 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: 3003108 (with accelerometer)

Product name: Confidex Viking™ Quuppa

Availability: Please contact Confidex Smart Industries Sales at www.confidex.com/contact-us

For additional information and technical support, please contact Confidex Ltd.

DISCLAIMER

THE MATERIALS, PRODUCTS AND SERVICES ARE SOLD SUBJECT TO ITS STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT.

ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, CONFIDEX MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN CONFIDEX STANDARD CONDITIONS OF SALE, CONFIDEX AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.

Each user bears full responsibility for making its own determination as to the suitability of Confidex products, materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished systems incorporating Confidex products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Confidex.