

PRODUCT DATASHEET

Confidex Viking™ Sample Kits



Sample kit of 5 Confidex Viking products to get familiar with the capabilities of BLE technology.

Viking family offers reliable industrial grade Bluetooth® LE beacons for industrial identify, sense and locate applications.

VIKING FAMILY KEY FEATURES

Device type

Bluetooth® Low Energy beacon, Battery powered

Wireless interface protocol

Bluetooth® 5.1 / Wirepas v5.2 / Quuppa v1.2

NFC: ISO/IEC 14443A

Compliance (Declaration of Conformity)

All: Europe (CE), UK (UKCA), USA (FCC), Canada (IC)

Classic/Tough: Japan (MIC), Australia/New Zealand (ACMA), South-Korea (KC), 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

Over NFC interface with Confidex Runestone™ app /

Wirepas Network Tool / Quuppa Site Planner

Sensors*

Temperature sensor, LED and hall switch

Optional accelerometer sensor

Sensitivity / Max transmit power

-96 dBm / +4 dBm

Read range**

Up to 100 m / 330 ft.

Applicable surface materials

Can be attached to any surface

CONFIDEX VIKING™ SLIM KEY FEATURES

Enclosure

IP64, PC/ASA, integrated seal

Operating temperature

-20°C to +60°C / -4°F to +140°F

Vibration resistance

EN 60068-2-6: 2008, Test Fc: Vibration, 10G

EN 60068-2-27: 2009, Test Ea: Shock, 20G

Tag dimensions

74,5 x 32 x 14,5 mm / 2.95 x 1.26 x 0.57

Battery type (total capacity)

Replaceable CR2477 (1000 mAh) coin battery



CONFIDEX VIKING™ CLASSIC KEY FEATURES

Enclosure

IP69K, PC/ASA, ultrasonic welded

Operating temperature

-20°C to +60°C / -4°F to +140°F

Vibration resistance

EN 60068-2-6: 2008, Test Fc: Vibration, 10G

EN 60068-2-27: 2009, Test Ea: Shock, 20G

Tag dimensions

56 x 55 x 19 mm / 2.20 x 2.13 x 0.75 in

Battery type (total capacity)

Non-replaceable CR2477 (2000mAh) coin batteries



CONFIDEX VIKING TOUGH™ KEY FEATURES

Enclosure

IP69K, poly-urethan casting

Operating temperature

-40°C to +85°C / -40°F to +185°F

Vibration resistance

EN 60068-2-6: 2008, Test Fc: Vibration, 20G

EN 60068-2-27: 2009, Test Ea: Shock, 40G

Tag dimensions

56,4 x 55,6 x 21 mm / 2.22 x 2.19 x 0.83 in

Battery type (total capacity)

Non-replaceable CR2477 (1900mAh) coin batteries



* 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.

STANDARD OPERATING MODES



Eddystone



iBeacon



Confidex Viking™ beacon utilizes Eddystone™ open standard frame format and/or iBeacon protocol ensuring straightforward implementation on a wide range of Bluetooth® Low Energy devices.

Confidex Viking™ Classic comes with standard parameters by default. It can be factory configured with customer specific parameters to support any 3rd party system. Confidex™ Viking can also be personalized with a custom label to ease the tag identification in the field.

Following Eddystone™ frame types are supported:

- **iBeacon** frame type supported with advertising 16 bytes UUID, 2 bytes Major, and 2 bytes Minor.
- **Eddystone™-UID** frame broadcasts 16-byte Beacon ID composed of a 10-byte namespace and a 6-byte instance.
- **Eddystone™-URL** frame broadcasts a URL using a compressed encoding format.
- **Eddystone™-TLM** frame broadcasts telemetry information, like battery voltage and temperature.
- **Accelerometer** frames (optional) are proprietary advertising packets which broadcasts Confidex Viking™ acceleration statistics and activity.

3rd PARTY PLATFORM SUPPORT



Confidex Viking™ products and sample kits can also be ordered with pre-configured Vikings with printed label or with special firmware for Confidex partners ecosystems and platforms such as Quuppa and Wirepas. For more information, please see the product datasheets.



ORDER INFORMATION

Product numbers for standard sample kits:

3004125 Confidex Viking™ Slim Sample Kit

- 5x 3004057 Confidex Viking™ Slim

3002932 Confidex Viking™ Classic Sample Kit

- 5x 3003597 Confidex Viking™ Classic

3003640 Confidex Viking™ Tough Sample Kit

- 5x 3002662 Confidex Viking™ Classic

Product numbers for Quuppa sample kits:

3004192 Confidex Viking™ Slim Quuppa Sample Kit

- 5x 3004127 Confidex Viking™ Slim

3003221 Confidex Viking™ Quuppa Sample Kit

- 5x 3003108 Confidex Viking™ Quuppa

3003639 Confidex Viking™ Tough Quuppa Sample Kit

- 5x 3003220 Confidex Viking™ Quuppa

Product numbers for Wirepas sample kits:

3004192 Confidex Viking™ Slim Quuppa Sample Kit

- 5x 3004127 Confidex Viking™ Slim

3003637 Confidex Viking™ Wirepas Sample Kit

- 5x 3003404 Confidex Viking™ Wirepas

3003638 Confidex Viking™ Tough Wirepas Sample Kit

- 5x 3003634 Confidex Viking™ Wirepas

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

For additional information and technical support, please contact us in contact.BLE@confidex.com

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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

