PRODUCT DATASHEET
Confidex Viking™ Sample Kits

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

VIKING FAMILY KEY FEATURES

Device type
Bluetooth® Low Energy beacon, Battery powered
Wireless interface protocol
Bluetooth® 4.2 (ISM 2401 – 2481MHz)
NFC: ISO/IEC 14443A (13,56MHz)
Compliancy (Declaration of Conformity)
Europe (CE), USA (FCC), Canada (IC), Japan (MIC),
Australia/New Zealand (ACMA), South-Korea (KC),
Russia (EAC), Ukraine (UkrSEPRO), Brazil (ANATEL)
Configuration interface
Over NFC interface with Confidex Runestone™ mobile app
(available for android mobile phones in Google Play store)
Sensors*
Built-in temperature sensor, accelerometer as option
Read range**
Up to 200 m / 650 ft. Measured on and off metal.
Battery type (total capacity)
2 x CR2477 coin battery for maximal lifetime
Expected lifetime***
8 years with typical operating parameters

* Temperature sensor is located inside the plastic housing, which limits real time measurement of the ambient temperature. Sensor calibration is available as additional service.
** Read ranges are measured in laboratory environment and there can be some variation in real application.
*** Beacon lifetime is optimized for long term use, and is highly affected by operating mode parameters, accelerometer usage and ambient temperature. Configured TX power level and advertisement interval have influence on lifetime.

CONFIDEX VIKING™ KEY FEATURES

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

Encapsulation
IP68, high quality PC/ASA
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
Tag dimensions
56 x 55 x 19 mm / 2.20 x 2.13 x 0.75 in (M5 size hole)

CONFIDEX VIKING TOUGH™ KEY FEATURES

Extremely robust industrial grade
Bluetooth® Low Energy beacon for
industrial applications.

Encapsulation
IP69K, poly-urethan casting
Operating temperature
-40°C to +85°C / -40°F to +185°F
EN 60068-2-14: 2009, Test N: Change of temperature
Water resistance
Submersible (IP69K)
Vibration resistance
EN 60068-2-6: 2008, Test Fc: Vibration, 20G
EN 60068-2-27: 2009, Test Ea: Shock, 40G
Tag dimensions
60 x 55 x 21 mm / 2.36 x 2.18 x 0.83 in (M5 size hole)

STANDARD OPERATING MODES

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:

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.

Eddystone™-EID frame broadcasts an encrypted ephemeral identifier that changes periodically.

Eddystone™-EID frame operating mode requires service for resolving the ephemeral ID. Please contact Confidex for more information.

iBeacon advertise 16 bytes UUID, 2 bytes Major, and 2 bytes Minor.

Accelerometer frame (optional) is a proprietary advertising packet which broadcasts Confidex Viking™ acceleration statistics and activity.

3rd PARTY PLATFORM SUPPORT

Confidex Viking™ sample kits can also be ordered with pre-configured Vikings to Confidex partners ecosystems and platforms such as Quuppa, Here and Wirepas. For more information, please see the product datasheets.

ORDER INFORMATION

Product numbers for standard sample kits:

3002932 Confidex Viking™ Classic Sample Kit
- 5x 3003597 Confidex Viking™ Classic

3003221 Confidex Viking™ Quuppa Sample Kit
- 5x 3003108 Confidex Viking™ Quuppa

3003637 Confidex Viking™ Wirepas Sample Kit
- 5x 3003404 Confidex Viking™ Wirepas

3003640 Confidex Viking Tough™ Sample Kit
- 5x 3002662 Confidex Viking™ Classic

3003639 Confidex Viking Tough™ Quuppa Sample Kit
- 5x 3003220 Confidex Viking™ Quuppa

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