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BlueBeacon Ultra

Bluetooth Low Energy beacon with dual-antenna for proximity, localization and monitoring applications



BlueBeacon Ultra is the ultimate BLE beacon: not a simple beacon, but the building block for Bluetooth5 infrastructures for localization and sensing.

It is based on nRF52832 SoC, has 2 power options (4x AA batteries or micro-USB), 2 antennas (circularly-polarized directive and omnidirectional), integrated accelerometer, temperature and humidity sensor, USB serial communication.

BlueBeacon Ultra is supplied in an elegant plastic case for wall installation.

Firmware options	
Standard BlueUp firmware	Supported technologies: iBeacon, Eddystone, Quuppa-DF Full support of Eddystone specifications (including EID and GATT service) All parameters configurable with BlueBeacon Manager app for iOS/Android OTA FW upgrade
Other firmwares	Quuppa-ready firmware Beacon receiver firmware Bluetooth5 mesh network firmware
Radio	
Version	Bluetooth 5.0 (Bluetooth Low Energy)
Frequency	2.402 to 2.480 GHz
SoC	Nordic nRF52832 with ARM Cortex-M4 CPU
Antennas	Antenna 1: PCB directive circularly-polarized antenna Antenna 2: PCB meander folded-dipole antenna
Power	
Battery	4x AA (1.5V, alkaline, 5000 mAh typ. capacity @ 25°C)
Replaceable	Yes
Expected life	3 to 15 years, 24/7 at room temperature (depending on settings)
External power	Micro USB (5V DC)
Operating temperature	-20°C to +60°C
Enclosure	
Material	ABS plastic (UL94V-0)
Protection	IP40
Colour	White
Size	100 x 100 x 35 mm (excluding mounting flanges)
Advanced functionalities	
Sensors	3-axis linear accelerometer, temperature, humidity
User interfaces	Led, button, USB serial port

iBeacon is a trademark of Apple Inc., Eddystone is a trademark of Google Inc., Quuppa is a trademark of Quuppa Oy

PRELIMINARY FACTSHEET

BlueUp reserves the right to apply modifications to the product specifications