AVEROS CoreBlu X3 Indoor Positioning and Navigation User Manual

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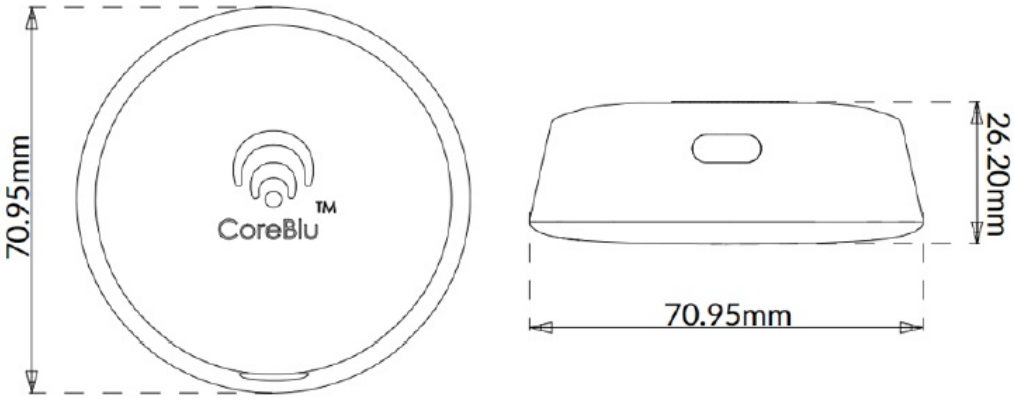
Introduction:

The CoreBlu line is a series of advanced Bluetooth Low Energy 5.x beacon devices using mul standard beacon technology.The CoreBlu-X3 is specially conceived for advanced business solu on using local on based and indoor navigate on based applica on. It features an ultra-low power consume on and long ba very life. The CoreBlu-X3 can be easily mounted on various surfaces and uses commercially available replaceable large capacity baseries.The CoreBlu-X3 comes with a downloadable SDK with an extensive library for easy Integra on into a wide range of local on-based and indoor navigate on-based applications. It also includes a wide range of tools facilita ng op mal setup, installed on and health-checks.

Physical characteristics:



Usage:

- CoreBlu X3 is designed to be mounted anywhere on various surfaces with the help of double-sided tape or screws to be detected by nearby smartphones.
- CoreBlu X3 is mainly used in indoor navigate on applications.
- CoreBlu X3 also includes a wide range of tools facilita ng op mal setup, installed on and health-checks.
- Long buon presses allow the beacons to restart/wake up (if sleeping) and show India on in the front LED.

Features:

- Bluetooth Radio
  Type: Bluetooth: Low energy 5.0
  Advert segment: iBeacon, Eddystone & beacon (Averos Proprietary).
  Advert cement Interval: 100ms to 10.2seconds.
  Frequency: 2.4GHz.
  Transmit Power: +4dBm to -20 dBm.
  Antenna Type: PCB antenna, Omni Directcanal.
- Sensor
  Mo on sensing: 3 Axis Accelerometer.

- Baery

  Battery type: ER14505 x 2, 4800mAh, Replaceable.
- Enclosure

  Material: ABS.

  Protec on Class: IP64.
- Opera ng Environment

  Temperature Range -20°C to 70°C.

  Opera ng Humidity 90%.
- User interface

  User interface buon.

  User indica on the LED.

Quick Start:
After unpacking the CoreBlu X3, we have the following steps to check the device quickly.

- **Hardware Test**

  Press the button for 5 sec and observe the LED blinking in front of CoreBlu X3. The device will now wake up from sleep mode.
- **Sofware Test**

  CoreBlu X3 has a Serial QRCode printed on the side, which maps to the Beacon MAC address. To verify the CoreBlu X3 is transmitng packets we have to scan the Barcode via Beacon Manager application. Once Beacon Manager has been installed in the smartphone, select iBeacons. After that click, the no filter selected button top let of the screen then click QR Code button, scan the QRCode on CoreBlu X3 and press apply, if CoreBlu X3 is turned on it will show on the list on the screen.

Configura on Setting:
Please refer to the configura on guide.

Warning:
CoreBlu X3 contains electronic elements and a battery which should be properly disposed of. If a beacon needs to be disposed of, please contact the manufacturer's technical support first.

FCC Cautions:
This device complies with part 15 of the applicable FCC Rules. Its opera on is subject to the following two condition: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired opera on. Any changes or modifica ons not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protect on against harmful interference in a residensal installed on. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with The instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a par cular installed on. If this equipment does cause harmful interference to radio or television Recep on, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separate on between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult

the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure Condi on without restriction.

Documents / Resources

	AVEROS CoreBlu X3 Indoor Positioning and Navigation [pdf] User Manual B068, 2AZ3B-B068, 2AZ3BB068, CoreBlu X3 Indoor Positioning and Navigation, X3 Indoor Positioning and Navigation, Positioning and Navigation, Navigation