

NAO BlueSpot Datasheet

Last generations of smartphones and tablets come equipped with the newest version of the well-known Bluetooth standard: **Bluetooth 4.0 Low Energy**. BLE has a broad range of applications. It allows Pole Star to enable its NAO range of products to operate seamlessly with Apple devices, and provide best-in-class indoor location performance levels with Android devices even if Wi-Fi coverage is insufficient. Pole Star developed its own BLE beacon that will be placed throughout the target venue for location and navigation applications, and/or on several locations where specific interaction is required with an analytics platform or with the final user .

Key points:

- **Small size** and weight: 6.6 x 3.5 x 2 centimeters, <50g (battery included).
- Completely **autonomous**: no network connection, no external power source.
- **Instant install**: no configuration needed, always on.
- **Operating modes**: NAO BlueSpots® provide several operating modes depending on application requirements and autonomy requirements
- **OTA configuration and maintenance**: NAO BlueSpots® configuration and status can be remotely accessed, updated and customized using an application on a mobile device.
- **Autonomy vs. operating mode**:
 - Location and Navigation with Nao Campus™: 3 years +
 - Location, Micro-location, Navigation & Analytics with Nao Campus™ & Nao Micro: 2.5 years +
 - Stand-by mode : 5 years +
 - Apple iBeacon mode, depending on advertising: 3 monthes @ 100 ms up to several years.

Appearance and contents



The ABS case is designed to meet IP54 protection. NAO BlueSpots® can either be stuck or screwed.

They contain:

- A Bluetooth 4.0 single-mode chipset;
- A very small antenna;
- A non-rechargeable battery.

Standard and Compliance

NAO BlueSpots® are compliant with the Bluetooth 4.0 standard. Operating in the 2402-2480 MHz ISM band with low RF emissions (<10 mW), NAO BlueSpots® usage do not require any license. Interference levels produced by these devices and to these devices by other standard communication systems are considered negligible. A specific white paper on these issues is available on demand.

Battery



NAO BlueSpot® beacon is powered by a non-rechargeable Li-SOCl₂ battery with 1200 mAh capacity. These batteries are designed for professional grade applications with long-term reliability included in harsh environmental conditions. They are compliant with IEC 60086-4 safety standard and EN 60079-11:2007 intrinsic safety standard. Their specific datasheets are available on demand.