NAO_Bluespot_V3_series-datasheet. Rev V1.5-EN (PS494-12/2015-CL/CL)

NAO BlueSpot V3 series datasheet 🛟 PC

Bluetooth 4.0 Low Energy Beacon with iBeacon technology¹



Key features

- Over 5 years of battery lifetime²
- Both for indoors (IP54) and outdoor use using the optional silicon housing
- Compatible with Apple[®] iBeacon technology¹
- Custom Advertisement capability (ex: Eddystone[™], AltBeacon, or any other proprietary message³)
- Compatible with all Bluetooth Smart 4.0 devices
- Monitoring and management with the NAO[®] Cloud platform
- Remote configuration and upgrade "Over The Air"

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At a glance...

Plug& Play. Compliant with the Apple iBeacon technology¹, NAO[®] BlueSpot comes with factory set identifiers for instant operation: just insert the batteries, simply clip the cap, and stick the unit on the indoor wall using the provided adhesive tape. That's it! You are ready to experience accurate indoor location, proximity detection and interactions with Pole Star's NAO platform and SDK. Various fastening options such as screwing, strapping are also available for even more sustainable installations.

Long lifetime. With our long time experience in power control, we make the best out of industrial grade Lithium batteries, thus ensuring best-in class 5 years² continuous operation under a broad temperature range ⁵.

Designed to run in harsh environments. Meets IP54 requirements: dustproof, resists to water projections. An optional housing is available to extend the protection (IP65 grade) for outdoor operation.

Activation and maintenance. Correct operation and Health Status are visually confirmed when inserting the batteries. Thanks to the clippable body / cap system, battery replacement is easy, quick, and do not require to uninstall the beacon. After installation, Health Status and Battery life are remotely monitored through our SDK and centralized on the NAO[®] Cloud platform.

Remote configuration. Relying on a secured remote access, your beacon identifiers, RF parameters such as the advertising rate and transmit power can be configured "Over The Air" to best fit both your application requirements and lifetime expectations. Advertising content can be replaced to support Eddystone [™], an open beacon format from Google, or any other custom format.

Upgradability. The beacon firmware can also be upgraded "Over-The-Air" to benefit from upcoming features. Configuration and Firmware upgrade are secured to prevent from hacking; Update and upgrades are managed on NAO[®] Cloud platform and deployed on compatible devices using NAO[®] Logger app.

RF performance. 5+ years' field proven experience, providing an industrialized solution, with best-in-class RF performance, sustainability and optimal scan performance on the device side. More than 200 customers and partners worldwide have selected Pole Star beacons, representing hundreds of thousands currently running units.

Quality, at first. Designed and assembled In France, 100% units are fully tested before delivery and benefit from a 1 year warranty. CE and FCC certified.

³ Limited to a static message such as EDY-UID or EDY-URL as a replacement for the factory default iBeacon message.

¹ iBeacon technology creates a small area of detection where customized notifications can be sent to iBeacon-enabled apps on iPhone, iPad, or iPod touch devices that support Bluetooth 4.0 technology. See <u>https://developer.apple.com/ibeacon/</u>

² Running with two 2500 mAh batteries, 24/7/365, 20°C, with the standard configuration profile (1s interval advertising, full RF power).

Dimensions and weight	Height	20 mm
	Width	45 mm
	Depth	60 mm
	Weight	25 grams 60 grams (2 batteries included)
Casing	Material	ABS (UV resistant)
	Color	White (RAL9003)
	Fastening options	Adhesive tape (included): 28 mm x 48 mm Screws: x2, Ø3 mm, countersunk, cross type
	Device identification	6 digits unique identifier.
Power supply	Format	AA Size (x2), Replaceable
	Technology	Li-SoCl2 Primary cells
	Voltage and capacity	3.6V, 2500 mAh
Battery life	Standard NAO profile (iBeacon)	5+ years (850 ms interval, + 3 dBm, 20°C)
	Apple iBeacon profile	1.5+ year (0.1s interval, -10 dBm, 20°C)
Advertising	Default advertising mode	Apple [®] iBeacon mode Serialized major/minor's (factory set)
	Default iBeacon UUID	504F4C45-5354-4152-0000-0[0]00
	Advertising customization	Custom iBeacon UUID, Major, Minor. Custom static advertising frames. Health monitoring data (proprietary)
	Additional data broadcast	including remaining lifetime, system flags)
RF performance	Range (typical)	100m+ (outdoors, free spaces) 25m (indoors), variable.
	Transmitted RF power	-27 dBm to +3 dBm max.
	RSSI readings	-51 dBm measured at 1meter ⁴
Peripherals	Operating Light (LED)	Missing / Failing battery detection Hardware / Software health test Remote visual identification
	Temperature sensor	+/- 5°C
Environmental requirements	Temperature	-20°C / + 60°C ⁵
	Humidity	0 to 99 %
	Flame resistance	V0 flammability class
	Protection	IP54 IP65 using the optional housing
Certifications	RoHS/REACH	2017/2102/CE (2017-11) 2018/35/CE (2018-01)
	EU Certifications	EN301489-1/-17, EN300328, EN62311, EN60950-1.
	US Certifications	FCC Part 15, Subpart C (FCC ID: QOQBLE112 FCC Part 15, Subpart B, Class B FCC Part 2

⁴ Measured as specified and described in the Apple iBeacon Proximity Beacon Specification – Release R1 (2015/09/04). ⁵ Expected battery life should be drastically reduced when continuously operating at extreme temperatures.