

NAO BlueListener G1 datasheet

Model G1 / Bluetooth 5.0 - Wi-Fi Gateway

S/N: PST-S-HG-001



Key features

- Bluetooth 5.0 scanning. Also works with Bluetooth Smart 4.0 devices.
- Connectivity options:
 - LAN: IP connectivity over 10/100 Ethernet
 - Or WLAN: 802.11 b/g/n, 2.4 GHz Wi-Fi.
- Power supply options:
 - 5.0V DC – 1A (micro-USB). Wall plug USB power supply available in option.
 - Power Over Ethernet (PoE 802.3af).
- RGB LED Strip as a status indicator. Can be disabled.
- Management with the NAO® Cloud platform.
- Remote firmware upgrade.



Overview

The NAO® BlueListener G1 device takes part of Pole Star NAO Track product suite.

The NAO® BlueListener G1 collects data from BLE tags in the vicinity, performs measurements on received signals and sends reports to Pole Star NAO Cloud server over Wi-Fi or Ethernet connectivity.

Applications

Used as part of the NAO Track™ solution for real time location of tags, presence detection and geofencing.

Mounting

The NAO® BlueListener G1 device can be securely wall-mounted or ceil-mounted using two screws as provided (PH type – L=20mm) and adapted expanding plugs (L=25mm, d=5 mm). Also provided, a paper template drives you in the drilling, using a 5 mm bit. Holes spacing l=86 mm.

As an alternative, double sided adhesive tape (not provided) can be easily stuck on the large flat back-plate.



External controls and interfaces

| Sign | Port / Slot / Description |
|---------------|---|
| - | Multi-Purpose 24-segment RGB LED ring indicator. |
| ON/OFF | Toggle Switch. Power On / Off device. |
| Reset | Multi-purpose soft button. Reserved for future use. |
| RJ45 | 10 / 100 Mbps Ethernet. 802.3af PoE. |
| USB | 2x External USB 2.0 slot. Reserved for future use. |
| IN | USB power input, Micro-USB connector (5.0V DC, 1A). |
| TF | Transflash card slot. Reserved for future use. |

Due to a continuous program of product improvement, features and other product specifications are subject to change without notice or obligation.

Technical specifications

| | | |
|---|-----------------------|---|
| <i>Dimensions and weight</i> | Height | 150 mm |
| | Width | 150 mm |
| | Depth | 36 mm |
| | Weight | 180 grams |
| <i>Casing</i> | Material | ABS |
| | Color | White (Glossy finish) |
| | Accessories | USB cable (length: 1m, provided) Screws and wall-plugs (provided) 5V DC, 10W USB wall-plug adapter (optional) |
| <i>Power supply</i> | Voltage | 5.0 Volts DC (max: 5.5 Volts) |
| | Format | Micro-USB (female slot) |
| | Current | 330 mA (Micro-USB), 340 mA (PoE) |
| <i>System</i> | Core | MediaTek MT7688 MIPS24KEc -580 MHz 32-bit CPU |
| | Operating System | OpenWrt Linux distribution |
| | Flash | 16 MBytes |
| | RAM | 128 MBytes 16-bit DDR2 |
| <i>Bluetooth</i> | Chipset | Nordic Semiconductor nRF52832 ARM Cortex-M4 64 MHz 32-bit processor |
| | Type | Bluetooth Low Energy 5.0 compliant |
| | Rx sensitivity | -96 dBm |
| | Tx power | -20 to +4 dBm (4 dB steps) |
| | Supported data rates | 1 Mbps, 2 Mbps |
| <i>Wi-Fi</i> | Wireless | 802.11 b/g/n (single stream) |
| | Frequency band | 2.400 GHz – 2.484 GHz |
| | Supported modes | Router, client modes |
| | Security | WPA(2) – PSK, WPA Enterprise |
| <i>External controls and interfaces</i> | Buttons | ON/OFF switch, reset button |
| | Status light | RGB LED strip |
| | Slots | 1xRJ-45, 1xMicro-USB, 2xUSB 2.0, 1xTF Card |
| <i>Environmental requirements</i> | Operating temperature | -25°C / + 65°C |
| | Storage temperature | -40°C / + 85°C |
| | Humidity | 0 to 95 %, Non-condensing relative humidity |
| | Protection | N/A – For indoor use only |
| <i>Certifications</i> | | EN301489-1 V2.2.0 (2017-03) EN301489-17 V3.2.0 (2017-03) |
| | EU Certifications | EN300328 V2.1.1 (2017-11) EN62311:2008 EN60950-1:2006+A2:2013 |
| | US Certifications | FCC Part 15, Subpart C (FCC ID: 2ABU6-G1) |
| | RoHS | 2017/2102/CE (2017-11) |
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 Product Name : **BLE WiFi Gateway**
 Product Model : **G1**

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