

TECHNICAL DATASHEET #TDAX141156

CAN-Bluetooth® Beacon Gateway

1 CAN Port (SAE J1939)

Can receive messages from 8 Bluetooth® Low-Energy v5.2 sensors simultaneously

P/N: AX141156

Features

- Receives messages from tire pressure sensors or other Bluetooth® beacons and transmits them over a machine's CAN (SAE J1939) network
- Supports up to 8 beacons simultaneously
- Uses Bluetooth® Low Energy (BLE) V5.2 standards
- Connection range up to 50 m (164 ft.) (May vary. See details below.)
- 6 to 80 Vdc (12, 24, or 48 Vdc nominal) with load dump
- 6-pin TE Deutsch equivalent connector
- Operating temperature: -30 to 85 °C
- Compact, laser-welded, IP67 enclosure
- FCC, ICES, RED compliance
- CE / UKCA / Giteki markings
- Vibration and shock compliance for off-highway applications
- Configurable via Axiomatic CAN2BLE Configuration application on compatible Apple iOS or Android devices using Bluetooth® Low Energy (BLE).



CAN-Bluetooth® Beacon Gateway - P/N: AX141156

Accessories:

- AX070119 Mating Plug Kit
- CAN2BLE Configuration application available for Android and iOS devices (see User Interface below).

Description

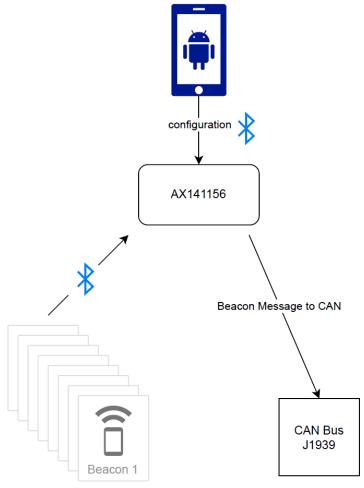
The CAN-Bluetooth® Beacon Gateway receives messages from tire pressure sensors or other Bluetooth® beacons and transmits them over a machine's CAN (SAE J1939) network. It supports up to 8 beacons simultaneously. It uses Bluetooth® Low Energy (BLE) V5.2 standards.

The device can be configured wirelessly using the CAN2BLE Configuration app (available on both the Google Play Store and Apple App Store for a fee). This app enables users to manage all device functionalities, including setting PIN codes, configuring beacons, and defining forwarding rules. Users can configure specific bytes from the beacon frames or transmit the entire frame.

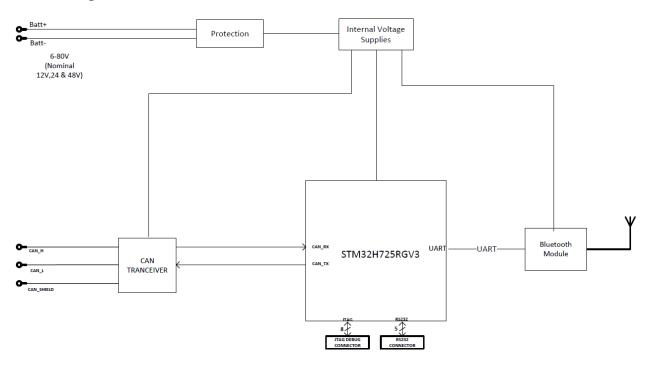
SAE J1939 is the CAN bus protocol for operation. It supports baud rates of 20, 50, 100, 125, 250, and 500 kbps as well as 1 Mbps and features auto-baud-rate detection.

It has rugged packaging and performance for IP67, high vibration and off-highway machine environments. It operates from -30 to 85°C (-22 to 185°F). The unit carries CE, UKCA, and Giteki markings.

Topology Diagram



Block Diagram



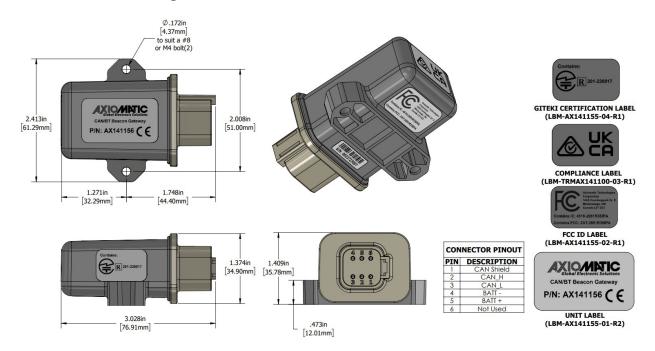
TDAX141156 2

Technical SpecificationsSpecifications are indicative and subject to change. Actual performance will vary depending on the application and operating conditions. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Limitations & Return Materials Process as described on https://www.axiomatic.com/service/.

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Nylon 6/6, 30% glass, laser welded 3.02 in x 2.41 in x 1.41 in (77 mm x 61 mm x 36 mm) L x W x H includes the integral connector. Refer to Dimensional Drawing. Flammability rating: UL 94 HB Electrical Connections 6-pin connector (equivalent TE Deutsch P/N: DT04-6P) Pin Description 1 CAN Shield 2 CAN H 3 CAN L 4 Power - 5 Power + 6 Not Used Mating Plug Kit Axiomatic P/N: AX070119 (includes 1 plug DT06-6S, 1 wedgelock W6S, and 6 sockets 0462-201-16141) Network Termination It is necessary to terminate the network with external termination resistors. The resistors are 120 Ohm, 0.25W minimum, metal film or similar type. They should be placed between CAN H and CAN L terminals at both ends of the network. Mounting Mounting holes are sized for #8 or M4 bolts. The bolt length will be determined by the end-user's mounting plate thickness. The mounting flange of the controller is 0.425 in. (10.8 mm) thick. It should be mounted with connectors facing left or right to reduce the likelihood of moisture entry. All field wiring should be suitable for the operating temperature range. Install the unit with appropriate space available for servicing and for adequate wire harness access (6 in. or 15 cm)		
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Dimensional Drawing



Form: TDAX141156-06/20/2025

Note: Bluetooth® is a registered trademark of Bluetooth SIG.

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