

LIN/CAN Converter

1 CAN Port (SAE J1939)

1 LIN Single-Pin Port (LIN 2.2A)

Configurable via Axiomatic Electronic Assistant

P/N: AX140620

Features

- Data exchange between a LIN and a CAN network
- 1 LIN single-pin port (LIN 2.2A)
- 1 CAN port (SAE J1939) (CANopen® model available)
- Operational from 9 to 32 Vdc (12 or 24 Vdc nominal)
- Designed for EMC compliance
- Fully sealed enclosure
- Rugged IP67 protection rating
- Compact size
- Integrated 6-pin TE Deutsch equivalent connector
- Configurable via Axiomatic Electronic Assistant



Applications

- Mobile (Off-Highway) Equipment
- Agricultural Equipment
- Trucks (Commercial Vehicles)

Ordering Part Numbers

LIN/CAN Converter, SAE J1939 with Auto-Baud-Rate Detection - P/N: **AX140620**

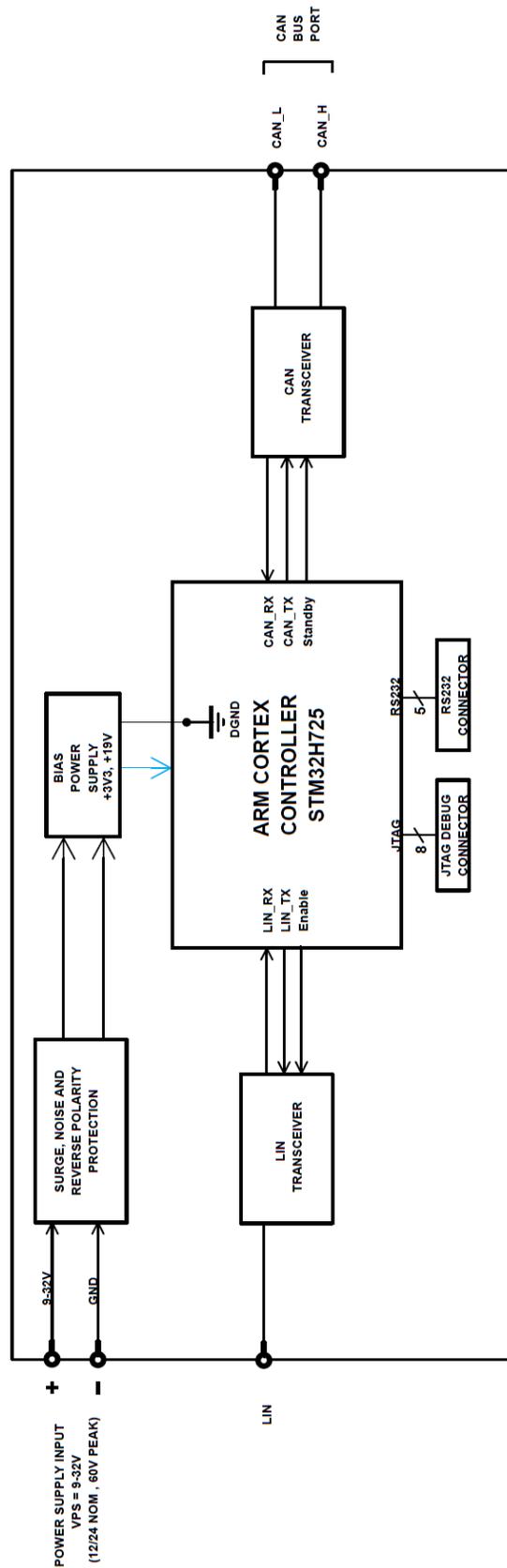
LIN/CAN Converter, CANopen® - P/N: **AX140621**

Accessories:

Mating Plug KIT: **AX070119**

Axiomatic Electronic Assistant: **AX070502** and **AX070506K**

Block Diagram



Technical Specifications

Specifications 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/>.

Technical specifications are typical at nominal input voltage and 25 °C unless otherwise specified.

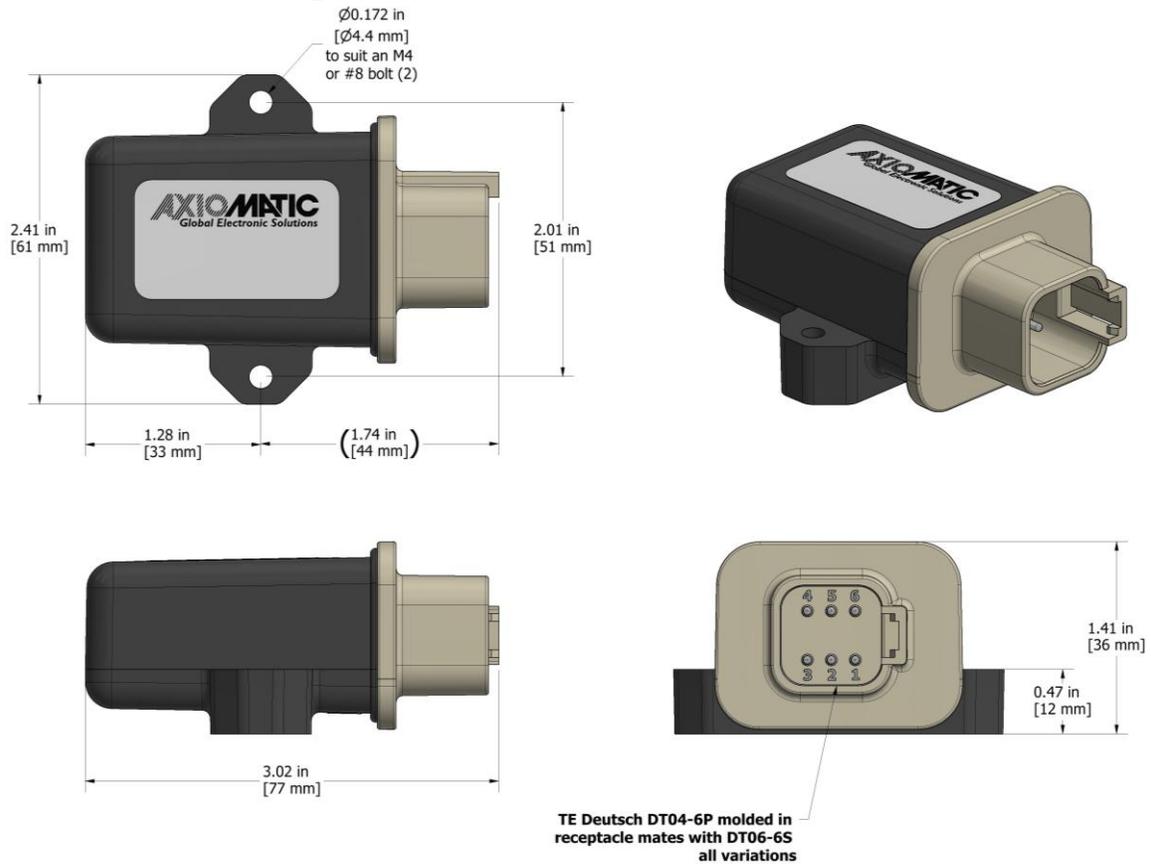
Power

Power Supply Input	12 V or 24 Vdc nominal; 9...32 Vdc
Quiescent Current	44.6 mA @ 12 V; 28.3 mA @ 24 V
Surge and Transient Protection	Provided
Reverse Polarity Protection	Provided up to 32 V
Undervoltage Protection	Undervoltage hardware shutdown at 4 V
Overvoltage Protection	Overvoltage hardware shutdown at 46 V

General Specifications

Microcontroller	STM32H725RGV3 32-bit, 1 MB flash program memory														
Control Logic	Configurable with the Axiomatic Electronic Assistant. Refer to the User Manual for details.														
LIN Port	1 LIN (LIN 2.2A) Supported baud rate: 2.4 kbit/s to 20 kbit/s														
CAN Port	1 CAN port (SAE J1939) Supported baud rate: 125 kbit/s, 250 kbit/s (default), 500 kbit/s, 800 kbit/s, and 1 Mbit/s with auto-baud-rate detection CANopen® model: AX140621														
User Interface	Axiomatic Electronic Assistant Kit - P/N: AX070502 or AX070506K														
Compliance	RoHS														
Operating Conditions	-40 to 85 °C (-40 to 185 °F)														
Storage Conditions	-40 to 85 °C (-40 to 185 °F)														
Weight	0.12 lb. (0.055 kg) Preliminary														
Protection Rating	IP67														
Enclosure and Dimensions	Plastic enclosure, Laser welded Nylon 6-6 with 30% glass fill 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.														
Electrical Connections	1x integral 6-pin connector equivalent to TE Deutsch P/N: DT04-6P <table border="1"> <thead> <tr> <th>Pin</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CAN Shield</td> </tr> <tr> <td>2</td> <td>CAN L</td> </tr> <tr> <td>3</td> <td>CAN H</td> </tr> <tr> <td>4</td> <td>LIN</td> </tr> <tr> <td>5</td> <td>Battery +</td> </tr> <tr> <td>6</td> <td>Battery -</td> </tr> </tbody> </table>	Pin	Description	1	CAN Shield	2	CAN L	3	CAN H	4	LIN	5	Battery +	6	Battery -
Pin	Description														
1	CAN Shield														
2	CAN L														
3	CAN H														
4	LIN														
5	Battery +														
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Mating Connector	A mating plug kit is available from Axiomatic under P/N: AX070119 (includes 1x DT06-6S, 1x W6S, and 6x 0462-201-16141)														

Dimensional Drawing



CANopen® is a registered community trademark of CAN in Automation e.V.

Form: TDAX140620-05/12/2025