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## Connect several devices to the same CAN bus

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### Features

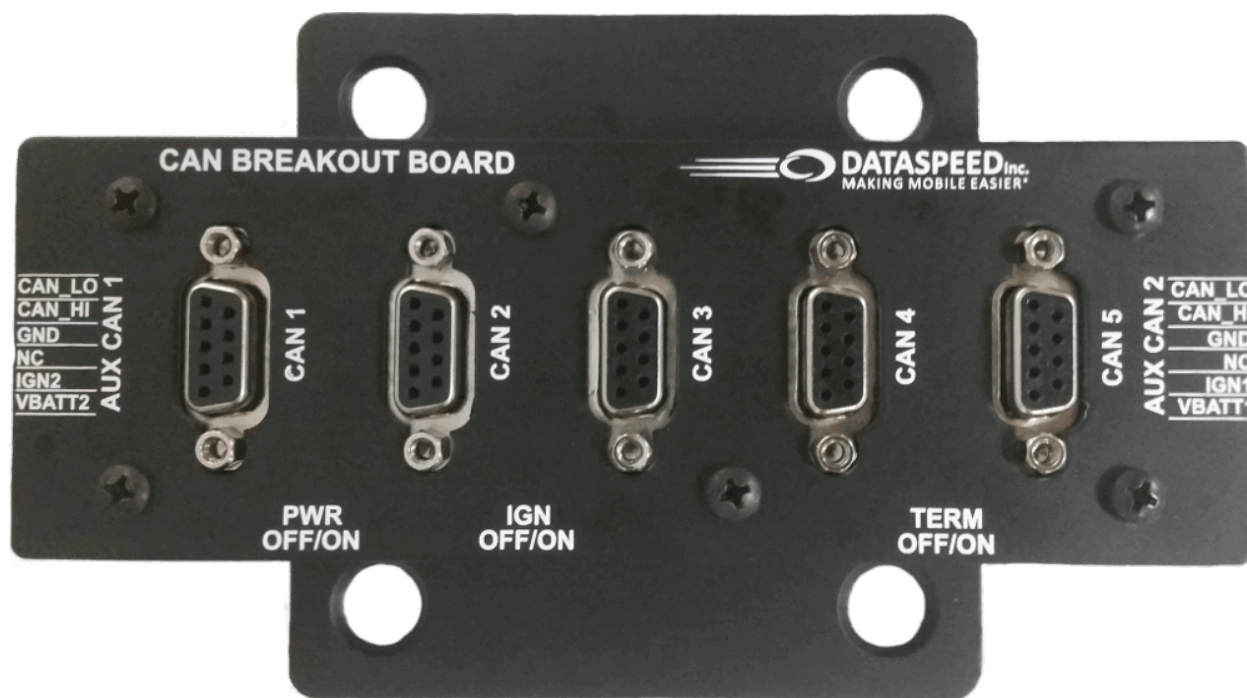
- 5 DB9 connectors
- Optional termination switch
- Optional power switch
- Optional ignition switch
- Screw terminal connector (AUX 1)

### Applications

- Driverless car research
- Advanced Driver Assist (ADAS) research

### Description

The Dataspeed Inc. CAN Breakout Board enables connecting multiple devices to the same CAN bus. Five standard DB9 connectors. Two auxiliary connectors to provide power and ignition signals.



## Contents

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## DISCLAIMER:

This product is intended for research purposes only. Steps have been taken to ensure function on power or communication loss. However, in no event shall Dataspeed Inc. be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of its products.

## 1 Connector Pin Description

### 1.1 DB9 Connectors

All 5 DB9 connectors are identical. All named pins are shorted between connectors. NC pins are not connected between connectors. See schematic.

Table 1: DB9 connector pin description.

Pin	Symbol	Description
1	NC	No Connect
2	CANL	CAN Low
3	GND	Ground
4	IGNITION	Ignition (12V)
5	NC	No Connect
6	NC	No Connect
7	CANH	CAN High
8	NC	No Connect
9	POWER	Power (12V)



### 1.2 AUX Connectors

The two auxiliary connectors have the option to provide power and ignition. Power and ignition from the two auxiliary connectors are diode ORed together to prevent contention. See schematic.

Table 2: AUX connector pin description.

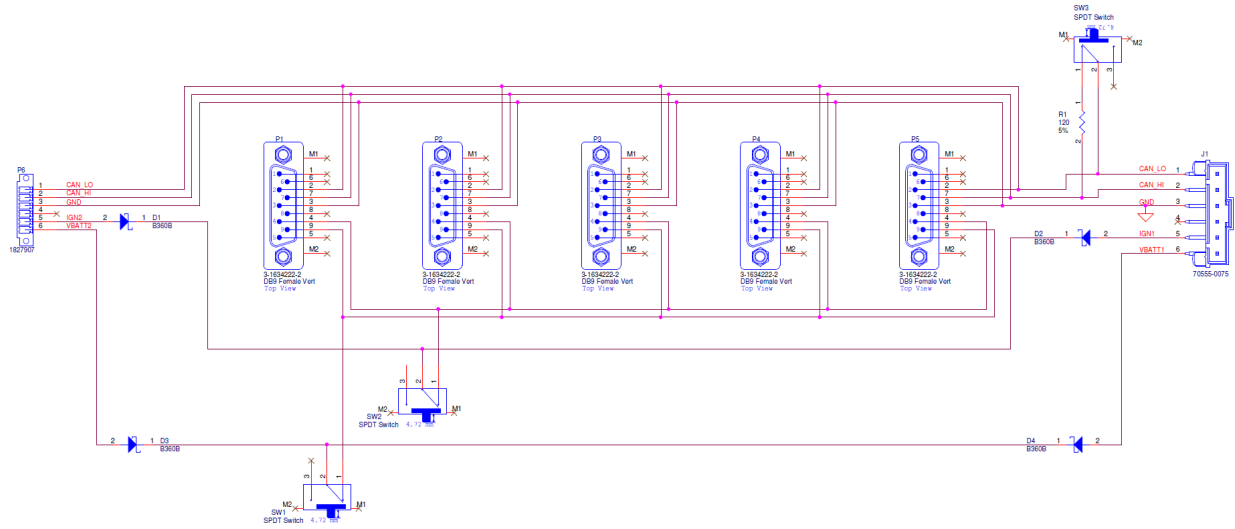
Pin	Symbol	Description
1	CANL	CAN Low
2	CANH	CAN High
3	GND	Ground
4	NC	No Connect
5	IGNITION	Ignition (12V)
6	POWER	Power (12V)

Table 3: AUX connector mating part numbers.

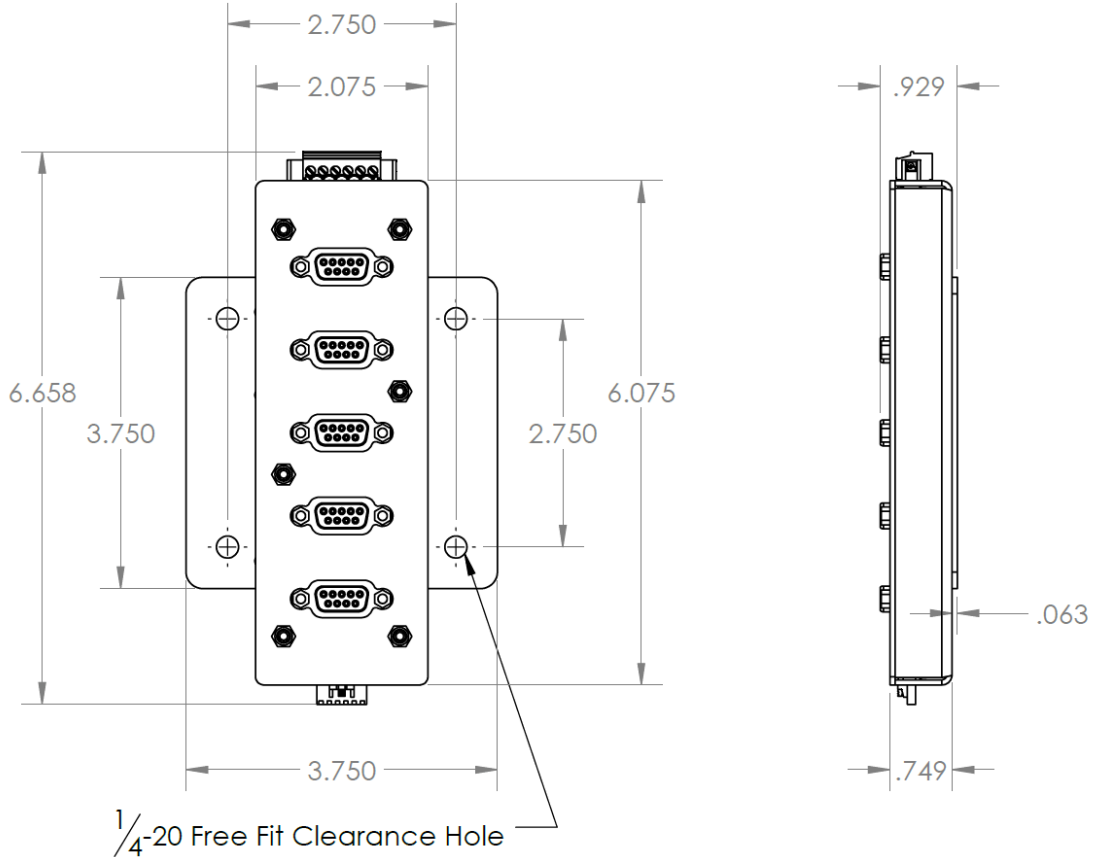
Pin	Mating Part Number	Manufacture	Image
AUX1	<a href="#">1827745</a>	Phoenix	
AUX2	<a href="#">50-57-9406</a> & <a href="#">16-02-0097</a>	Molex	

# CAN Breakout Board

## 2 Schematic



## 3 Mechanical Drawing



## APPENDIX A: REVISION HISTORY

### Revision A-00 (August 2016)

Modifications:

1. Initial release of this document.

### Revision A-01 (February 2023)

Modifications:

1. Updated Dataspeed logo.
2. Fixed connector part number web links.