

CAN Signal Modifier



Description:

The CAN Signal Modifier intercepts CAN/ CAN-FD messages, modifies them by applying an offset and scalar, and sends them to the original receiver. This modifier is configurable through the USB compatible software. Primary uses include calibration development, verification and simulating faults for OBDII monitors within the new EPA regulations.



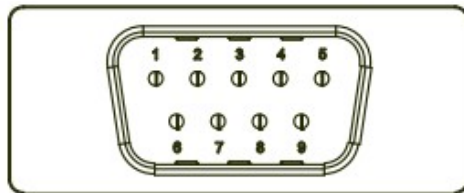
Basic Operation:

This module intercepts a selected CAN message, modifies the message and sends out that modified CAN message. The specified message is modified by using a linear algorithm, $y = mx + b$. The device would be set up through a user interface via a USB connection to a laptop.

DB9 Female Pinouts

CAN IN:

- (1) NC
- (2) CAN-L
- (3) GND
- (4) NC
- (5) NC
- (6) NC
- (7) CAN-H
- (8) NC
- (9) +12V



DB9 Female Pinouts

CAN OUT:

- (1) NC
- (2) CAN-L
- (3) GND
- (4) NC
- (5) NC
- (6) NC
- (7) CAN-H
- (8) NC
- (9) +12V

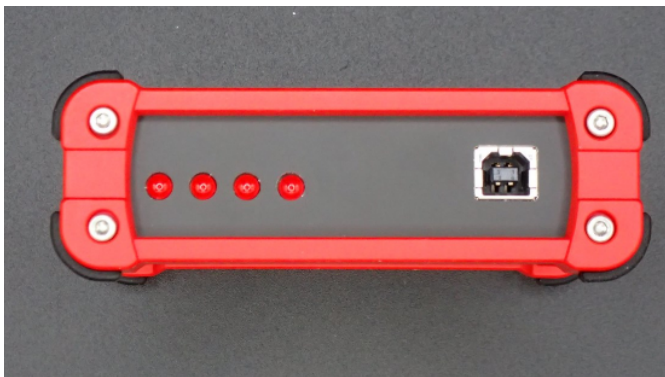
CAN Signal Specification:

Signal Name	Pin Number	Signal Description
N\C	1,4,5,6, & 8	Not Connected
CAN_L	2	CAN Low
GND	3	Ground
CAN_H	7	CAN High
+12V	9	+12V Input

Electrical Specifications:

Signal	Minimum	Typical	Maximum
Input Supply Voltage	+7 VDC	+12.7 VDC	+20 VDC
Input Supply Current		30 mA	100 mA

Dimensions LxWxH: (116x90x45)mm



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