

# Template:FMX640 and J1708

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## Description

SAE J1708 is a standard used for serial communications between ECUs on heavy-duty. The hardware utilized is RS-485 transceivers wired for open collector operation through the use of a pullup and pulldown of the separate data lines.

With [FMX640](#), J1708 functionality is used to read vehicle's Fuel Level and Fuel consumption.

Because J1708 is not a CAN-BUS protocol, [FMX640](#) CAN1 and CAN2 lines cannot be used to read J1708 information. [FMX640](#) has a special J1708 Port, which utilizes an RJ9 4P4C connector.

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## Software Configuration of FMX640 with J1708

**Firmware version:** 00.00.11 or above

**Configurator version:** 0.13.35.29297 or above

J1708 configuration is done in the [FMS IO](#) Tab.

FMS Fuel Settings					
Fuel level source	Fuel consumption source		High resolution engine total fuel used		
CAN	J1708	CAN	J1708	Liters	Milliliters

When J1708 is enabled as a Fuel Level source, Fuel-related data will be taken from the J1708 line, FMS Fuel data will be ignored.

## Connection with Vehicle port

J1708 connector is not supported by all vehicles. Only VOLVO, RENAULT, and American truck manufacturers implement the J1708 connector.

Trucks utilize *Deutsch 6-PIN or Deutsch 9-PIN connector*, which are used to connect FMX640 to J1708.

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 **NOTE: Most of the Volvo trucks need an J1708 connection to be able to receive fuel level data**