

# J1939 and NMEA 2000 connectivity

**Divelbiss (US) has announced upgrades to their P-Series, which are PLC-on-a-Chip based controllers. They have integrated J1939 and NMEA 2000 connectivity options and SD card data logging.**

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(Photo: Divelbiss)

THE SUPPORT OR USER CONFIGURABLE MESSAGING lets users implement J1939 and NMEA 2000. For applications utilizing Tier IV diesel engines or marine equipment, the capability of communicating via CAN interfaces provides access to an array of operational and control parameters. The latest releases of Divelbiss, the EZ Ladder Toolkit and the P-Series ([PLC-on-a-Chip](#) based products), also allow user-defined J1939 and NMEA 2000 messages.

When implemented in a J1939 system, [PGNs](#) and [SPNs](#) can be utilized from the built-in database. In addition, custom messaging allows the definition of custom PGNs and SPNs, whether broadcast or request. An address claim functionality is supported with a user defined name field. When needed, BAM and CM messaging may also be utilized. With these tools, it is possible to send or request any PGN/SPN or send/receive diagnostic messages DM1, DM2, or DM3.

In addition to the features provided for J1939 and NMEA 2000, specific features are also supported, such as NMEA 2000 name field for address claim and Fast Packet Send/Receive communications. Both J1939/NMEA 2000 and SD card data logging functionality is supported on all of the following products: the PLC on a Chip P-Series as mentioned, the HEC-P5000 series, the VB-2000 series, and the ICM-BB-P13 series, with additional products soon to be released. Standard function blocks allow the user to map specific SPN values to program variables. Data is logged to an SD card in either binary or ASCII formats.

Divelbiss Corporation, a developer and manufacturer of industrial electronics since 1974, provides R&D operations, design services and manufacturing.