

# Via J1939 or NMEA 2000 into the Cloud

**Divebiss announced the HEC-Gateway, a communications controller with minimal I/O for harsh environments. It is capable of translating between various industrial protocols and Cloud services.**

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The HEC-Gateway (Photo: Divebiss)

THE GATEWAY IS PROGRAMMABLE using the Divebiss EZ Ladder Toolkit in Ladder Diagram, Function Block, and Structured Text. It is based on the P-Series [PLC on a chip technology](#) and provides flexibility when translating between different serial bus protocols, data logging or adding IoT (Internet of Things) connectivity to existing systems.

The product supports communications through a multitude of ports. One CAN port is available which is isolated, NMEA compliant and supports the J1939 and NMEA 2000 protocols. The gateway features also two EIA-232 serial ports that support Modbus RTU/ASCII protocols as either a master or a slave device. They are also directly programmable via the Structured Text programming language, allowing the implementation of custom protocols. This makes them suitable for communicating to bar code scanners, RFID readers, or other devices. A GPS option is also provided.

Wi-Fi connectivity can be used for Modbus TCP Server and Client communications, as well as IoT communications with the Versa Cloud M2M platform. The HEC-Gateway has optional cellular capability for communicating with the Versa Cloud M2M platform. When utilized with the platform, the product can communicate data to a Versa Cloud portal, where it is date/time stamped and stored in the Cloud database for later viewing, analysis, and export.

For applications that require minimal I/O with bus or IoT communications, the HEC-Gateway provides digital and analog I/O. It includes a digital input configurable as NPN or PNP. The gateway, with its sealed enclosure, power voltage range from 9 V<sub>DC</sub> to 32 V<sub>DC</sub> and operating temperature range of -40 °C to +80 °C, is suitable for use in applications with environmental requirements.

The unit gives the user the ability to add Data Logging and IoT connectivity to virtually any application in the mobile, industrial, environmental, agricultural, construction, and other markets. Its data logging features include a real-time clock, 512 KiB of battery-backed SRAM and a micro SD card socket.