CAN *Newsletter Online*

CONTROL AND MONITORING SYSTEM

Support for J1939 and NMEA 2000

Divelbiss Corporation (USA) has announced Versa Cloud M2M, a complete end-to-end cloud monitoring and control solution. The system supports J1939 and NMEA 2000 and has a CAN port.

THIS SOLUTION MERGES HARDWARE, SOFTWARE, communications, and cloud services into a deployed control and monitoring system designed for the mobile,

Versa Cloud M2M products from Divelbiss (Photo: Divelbiss)

industrial, environmental, agricultural, and construction markets. Native support for industry protocols such as J1939, NMEA 2000, and Modbus, in addition to hardened I/O, PLC control capabilities, and SD card data logging, allow for a high level of flexibility when implementing a multitude of control and monitoring applications.

As part of the end-to-end solution, the company is releasing a spectrum of Versa Cloud M2M enabled controllers and gateways based on the P-Series (PLC on a Chip technology). With options ranging from NEMA 4 sealed enclosures to open-board packaging options, and supporting analog and digital I/Os, CAN, encoders, PWM outputs, SD Card data logging, real time clock, EIA-232/485 serial, Ethernet, Wi-Fi, GPS, and cellular communications, a device is available for many applications. All Versa Cloud M2M enabled controllers are programmed using the Divelbiss EZ Ladder toolkit. If an application has unique I/O, communication, or packaging requirements, the P-Series allows custom controllers to be developed.

With cellular communication, the Versa Cloud M2M platform utilizes a low-overhead industry-standard communication protocol to minimize data usage. This protocol allows sending and receiving messages using a little as 150 bytes of data. In addition to cellular, cloud communication may also be performed over Wi-Fi and Ethernet. Private cellular network and server options are also available.

The platform provides a secure web-based user portal for access to device data and dashboards. A configurable dashboard interface displays current and historical data through drag-and-drop graphical java widgets. A range of widgets is available, such as: dial gauges, tank level graphs, bar graphs, line graphs, maps, tables, etc. Custom java widgets can also be implemented. Multiple dashboards are also supported to provide a hierarchical display of equipment data, allowing the user to get more granular data for a specific piece of equipment. Email and text messages can be automatically generated based on event triggers. The platform API also allows the user to export data for offline analysis or utilization by external software or mobile device app.