

INTERNET OF THINGS

Dual-mode terminal with CAN interface

Orbcomm launched the ST 9100 dual-mode telematics device. It targets monitoring and controlling assets in the most remote geographies around the world. The device can be utilized for IoT (Internet of Things) applications.



(Source: Orbcomm)

The IoT applications include vehicle security, vessel monitoring, fisheries management, fleet management, as well as the remote monitoring of equipment in the oil and gas, utilities, and construction sectors.

The device enables multi-network connectivity over cellular networks using LTE capabilities with 3G and 2G fallback and low-latency satellite communications. An embedded global SIM from the company enables cellular connectivity on over 565 cellular networks, facilitating deployment in regions of the world regardless of the connectivity option. The device features a larger backup battery than previous versions, which allows for uninterrupted operation when an external power failure has occurred for a minimum of 48 hours.

The device is enhanced with additional inputs and outputs and serial interfaces, greater memory as well as a dual CAN network.

The CAN network allows customers to monitor and control different electronic control units over various protocols. The ruggedized, sealed device is also rated IP67 for ingress protection.

Utilizing the device's programming environment via the Lua framework, the company's partners can customize their solutions to the customers' needs or use the configurable terminal apps to accelerate time to market. The device's development kit includes the hardware, software development tools, documentation, accessories, and support to write and test an IoT solution and facilitate deployment.

In addition, the device features a Bluetooth 5.0 connection that enables the use of the company's portfolio of sensors, including door, temperature, identification, and more, as well as third-party sensors. Using their own mobile applications, customers can also visualize key data from the field to act upon or send messages from their mobile devices through the device via Bluetooth. Another value-added benefit of Bluetooth connectivity is that technicians can use their own mobile phone or tablet in the field for wirelessly configuring, troubleshooting, and ensuring that the device is properly installed and functioning.

Craig Malone, the company's Executive Vice President of Product Development said: "The new device offers a flexible programming environment that enables Orbcomm and its resellers to quickly develop solutions targeted for customized IoT applications and allows the unique ability to automatically switch between sending messages over satellite and cellular, ensuring continuous and cost-effective communication."

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