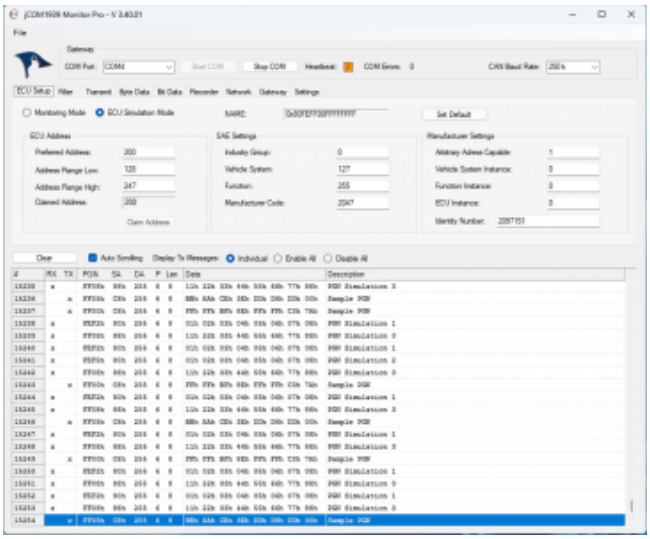
SAE J1939 Monitor Software for Monitoring, Recording, Analyzing, and Simulating Data Traffic



Copperhill Technologies, a provider of embedded systems for CAN Bus development, introduces its JCOM1939 Monitor Software, the perfect tool for monitoring, recording, analyzing, and simulating SAE J1939 data traffic as defined in the SAE J1939-71 Standard, including diagnostic messages according to SAE J1939-73. It works in combination with our SAE J1939 gateways.

GREENFIELD, Mass. - March 25, 2024 - *PRLog* -- This comprehensive and user-friendly Windows software is designed to make monitoring, recording, analyzing, and simulating SAE J1939 data traffic a breeze. It allows for network scanning, simulating an ECU (including full node address negotiation features), and responding to data request messages with ease.

The JCOM1939 Monitor Software offers a wide range of functionality, including data monitoring, PGN transmission, PGN filtering, ECU simulation, digital and analog data simulation, data recording, and network scanning. Additional features, such as PGN scripts for user-defined data transmission, filtering PGNs by node address, time stamps to determine PGN frequencies, replaying recorded data, and more, are in progress, ensuring a comprehensive solution for your SAE J1939 data analysis needs.

The communication protocol between the gateway and the host system (PC, Embedded System, iPhone, Android, etc.) is well documented, and we provide C/C# source code to read and write CAN data frames.

The JCOM1939 Monitor Software for Windows is available as a free-of-charge download but it requires the following SAE J1939 gateways:

Our SAE J1939 Starter Kit is designed to be easy to use, making it accessible to both experienced engineers and beginners who want to experiment with SAE J1939 data communication without connecting to a real-world J1939 network, such as a diesel engine. To establish a network, you will need at least two nodes, especially when working with CAN/J1939, since the CAN Bus controller will shut down after transmitting

data without receiving a response. Therefore, the Starter Kit includes two J1939 nodes: the JCOM.J1939.USB, an SAE J1939 ECU Simulator Board with a USB Port.

The SAE J1939 ECU Simulator Board is an adapter that enables high-performance and low-latency vehicle network connectivity for SAE J1939 applications. It allows any host device with a USB COM port to monitor the SAE J1939 data traffic and communicate with the SAE J1939 vehicle network.

The board's strength is that it stores the complete SAE J1939 protocol, along with all timing requirements, on the chip. This helps reduce the primary system's workload. The board communicates with the main system through a USB COM port, and all data transfer is done through standard COM port access.

The SAE J1939 to Bluetooth Gateway Module offers wireless communication via Bluetooth. It offers the same functionality as the USB version.

Copperhill Technologies, a Massachusetts corporation, develops, prototypes, and sells embedded systems for Controller Area Network (Classic CAN, CAN FD), SAE J1939, and NMEA 2000.

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