

- Bus Analysis
- Data Logging
- Data Analysis
- CAN & LIN Gateways



ATI CANLab™ - The Innovative Solution for Network Analysis

ATI CANLab is a universal network analysis tool that offers numerous features for bus analysis, data logging and data analysis. A range of common industry network protocols such as Controller Area Network (CAN) and Local Interconnect Network (LIN) are supported. CANLab allows for interactions with the specified network at the message or signal layer.

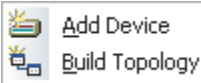
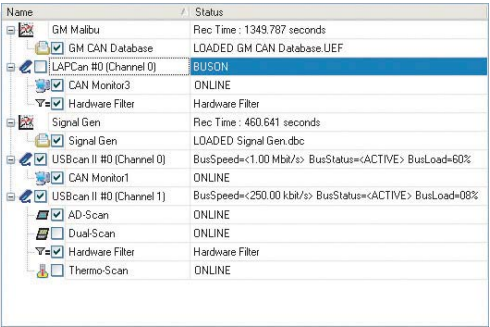
ATI has developed an easy-to-use graphical user interface which distinguishes CANLab from similar network analysis tools. The result is a user friendly and state-of-the-art software environment that promotes efficient network analysis.

Bus Analysis

ATI's CANLab is useful for monitoring CAN packets transmitted within a network, analyzing signal content and checking performance statistics. The packets received from the bus can be displayed real-time in a variety of different views, as well as stored to a recording for later post-analysis.

CANLab is highly recommended for fast-tracking the development of projects or revealing errors related to the communication setup (hardware and software configuration). Using CANLab to monitor network activity results in an improved understanding of communication mechanisms such as:

- Message timings and content
- Advanced multiplexed signals
- Message and signal management

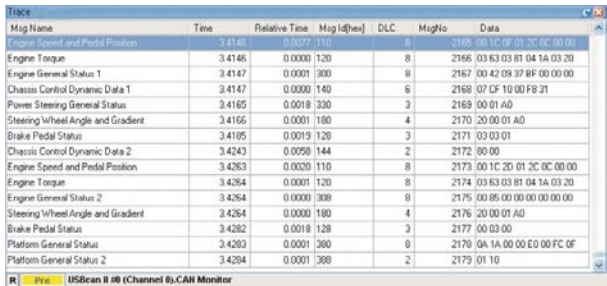


Build Topology option automatically creates actual connected network

The screen objects available in the CANLab environment all work intuitively, so you can answer critical design questions without first becoming an expert in network communications. High performance does not mean it is difficult to operate. Creating a Trace Object and going 'online' is all that is needed to start monitoring bus traffic on the network.

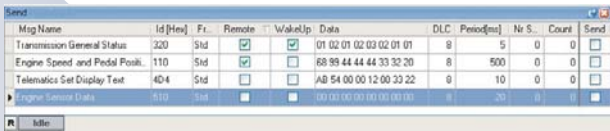
Trace Object

To effectively monitor bus traffic, CANLab provides the Trace Object. Messages from any available network channel can be shown with a variety of powerful options. Constructed as a data grid, the screen object displays incoming traffic in fixed or scrolling modes. Selectable columns display relative and absolute message timings, both 11-bit standard and 29-bit extended identifiers. Message label text is also displayed if that message is defined on a network channel manually or imported from a message database file. Software filters make it possible to customize the Trace Object output for optimal throughput for faster analysis of the bus traffic.



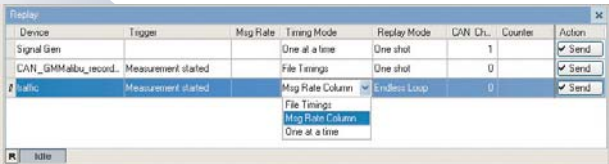
Send Object

Bus analysis wouldn't be complete without providing the ability to send messages over any available network channel. The Send Object gives the user commanding options to inject custom message data into the network. Existing defined messages on network channels can be used as well as creating one locally on the screen. Both 11 and 29 bit identifiers are supported as well as options for Remote transmit and Wake-Up flags. Injecting Error Frames, dynamic editing of the DLC and message bytes and reliable one-shot or periodic sending of messages (up to 1 millisecond interval time resolution or 1kHz) are possible with the advanced Send screen.



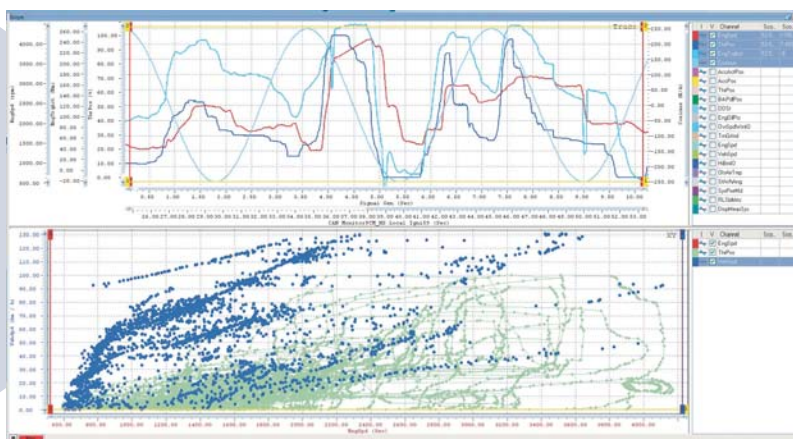
Replay Object

The Replay Object takes the diagnostics of networks further into the advanced field by facilitating the ability to re-send recorded bus traffic. Replay speed can be controlled by specifying fixed timing, recorded timing or scaled recorded timing. Multiple file import formats are supported including those commonly used in the industry. Replaying data over a specific network channel can be re-directed to different screen objects, giving a different view of bus traffic.



Traffic Generator Object

CANLab's Traffic Generator is a vital network diagnostic tool. It allows the ability to inject messages over the network for stress testing the system and to help measure bus utilization. Options include bus load percentage, limiting a message identifier range (including random), and number of bytes (DLC) of each message (including random).



CAN & LIN Gateways

Supported CAN Interface Gateways

The **Kvaser LAPcan II** is a two-channel CAN interface for the PC card (PCMCIA) bus. It is equipped with dual Philips SJA1000 CAN controllers, and has a high performance microprocessor and memory architecture, as well as enhanced ESD robustness.

Major features include quick and easy plug-and-play installation and support for 11-bit (CAN 2.0A) and 29-bit (CAN 2.0B active) identifiers.

For maximum flexibility and maintainability the CAN driver circuit is built into the LAPcan II interface cables (DRVcan).



A **Kvaser DRVcan** is a combined cable, connector and CAN bus driver for the LAPcan II PCMCIA CAN interface. DRVcans are offered in four versions:

- single channel high speed (DRVcan 1050)
- single channel low speed (DRVcan 1054)
- single channel single-wire (DRVcan S)
- single channel LIN (DRV Lin)



The **Kvaser USBcan II** provides a dual channel CAN-bus interface through a standard USB interface. The Kvaser USBcan II can be ordered with two high speed channels (TJA1050 (251) compliant), with one high speed channel (TJA1050 (251) compliant), or with one high speed and one low speed channel (TJA1054 compliant).

The **Kvaser USBcan Rugged** provides a CAN-bus interface through a standard USB interface. The Kvaser USBcan Rugged can be ordered with two high speed channels (TJA1050 (251) compliant) or with one high speed and one low speed (TJA1054 compliant).



The **Kvaser Memorator** makes it possible to log data from a CAN-bus to a standard MMC or SD-type flash disk. It provides a dual channel CAN-bus interface through a standard USB interface.

The Kvaser Memorator has a USB connection and can be used as an ordinary USBcan as well as a CAN data logger device. Configurations are selected in a standalone program and can be easily downloaded to the Kvaser Memorator for use in the field.



Supported Measurement Modules



CSM: AD-Scan, Thermo-Scan, Dual-Scan SMB/CAN, Baro-Scan, Thermo-Scan MiniModule, SMB4CAN Module



IMC: CANSAS C12, BR2, INC4, DAC8, DO8, DI16, ISO-8, DO16 Modules



Ipetronik: SIM Modules

System Requirements for CANLab

- Windows 98, 2000 and XP. Minimum 500 MHz processor with at least 128 MB of RAM memory.
- CAN and LIN hardware by Kvaser supporting CANlib 3.0 and 4.0
- Kvaser LAPcanII, USBcanII, USBcan Rugged, Memorator, PCICanII, or virtual CAN-bus provided by the same driver package.

ATI products are distributed by:

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