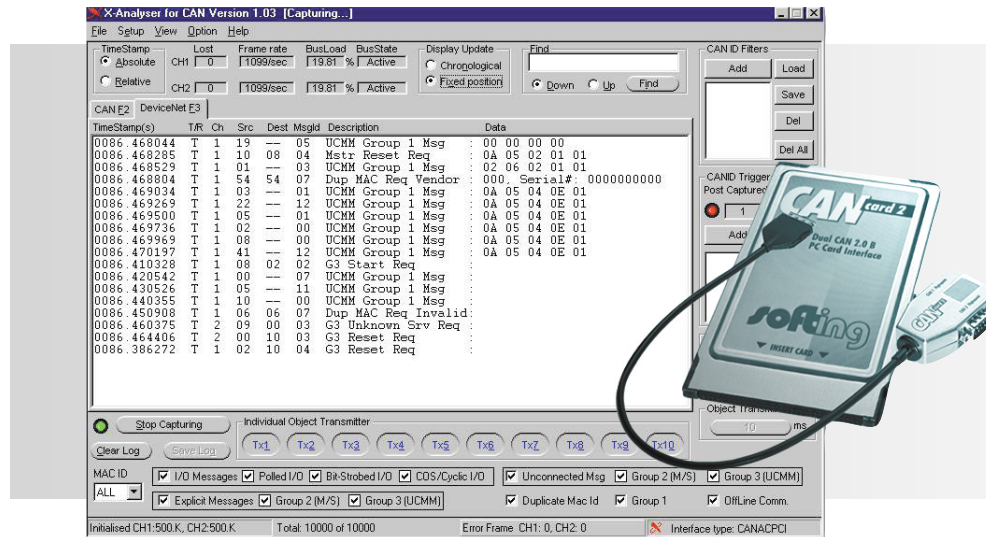


X-Analyser

Industrial
Automation

A universal tool for CAN, CANopen and DeviceNet



Application

X-Analyser is a universal software tool, used in conjunction with a CAN or DeviceNet hardware interface, for analyzing fieldbus systems. It enables the user to monitor and analyze data traffic on the bus line and actively intervene in the bus behavior by sending messages.

Thanks to the powerful elementary functions, X-Analyser is able to meet all requirements extending from the first trial runs using CAN, CANopen and DeviceNet up to error analysis for complex networks.

X-Analyser is suitable for a wide range of applications, namely

- for service and network maintenance purposes
- for analysis of CAN-based networks
- as an emulation system for applications
- as a starter kit for training purposes

Since the X-Analyser is often used in rough environments, in which use of the mouse may be difficult, many of the functions are available at the touch of a button.

Scope of Functions

Cyclic triggering of transmit objects

Transmit objects can be cyclically transmitted within periods determined by the user, while capturing if necessary.

“Filter on the Fly” – filter configuration on-line

X-Analyser offers the facility to filter the messages received from the bus and observe only the data associated with specific CAN IDs. This can be performed while the X-Analyser is on-line and capturing; it does not require the operator to stop the capture session to change the filter configuration. Many other features can also be selected and deselected within X-Analyser during a capture session.

Receive and transmit capabilities

As well as observing the data traffic on the bus, X-Analyser offers the possibility to transmit CAN messages defined by the user. These can either be sent cyclically, upon command, or triggered by a specific message received from the bus.

This is important when diagnosing bus faults or commissioning a CAN-based network for the first time; it is also extremely useful for quickly simulating devices on the network.

CAN ID tagging

X-Analyser provides the possibility to replace the CAN ID by a symbolic name.

Monitor/Active mode support

The tool enables the user to choose between the Monitor and the Active mode. In the Monitor mode,

the bus interface will not take part in the CAN bus arbitration process, whereas in the Active mode, it participates in bus activity.

Physical data tagging with engineering units

CAN bus data can be displayed as physical data (signals) with associated engineering units.

Graphical display of physical data

User-selectable signals can be scaled and shown in an oscilloscope-like manner.

Further features comprise

- CAN bus statistics
- 11-bit as well as 29-bit CAN IDs
- Configurable CAN data buffer size

Technical Data

Supported CAN IDs	11-bit as well as 29-bit
Transfer rates	50 kbit/s, 100 kbit/s, 125 kbit/s, 250 kbit/s, 500 kbit/s, 1Mbit/s or application-specific
Bus interface	Softing CANcard2, CANAC1-PCI, CANAC2-PCI, or CANusb
Permissible ambient conditions	Please see data sheet of the appropriate bus interface

System Requirements

- X-Analyser is designed to work on a PC platform, under MS Windows 95, 98, NT or 2000
- For bus access, one of the following interfaces is required:
 - Softing CANcard2 (PCcard, dual channel)
 - Softing CANAC1-PCI (PCI interface, single channel)
 - Softing CANAC2-PCI (PCI interface, dual channel)
 - Softing CANusb (USB interface, single channel only for Windows 98 or 2000)

Scope of Delivery

- X-Analyser software
- System documentation
- Optional:
 - DeviceNet interpretation of CAN messages
 - DeviceNet interpretation of CAN messages
 - Graphical display

Ordering Information

- | | |
|--------------------|---|
| ■ X-Analyser | Software and documentation without bus interface |
| ■ X-AnalyserCrd | X-Analyser with CANcard2 |
| ■ X-AnalyserPCI | X-Analyser with CAN-AC2-PCI |
| ■ X-AnalyserUSB | X-Analyser with CANusb |
| ■ X-AnalyserOPT/CO | CANopen interpretation for X-Analyser |
| ■ X-AnalyserOPT/DN | DeviceNet interpretation for X-Analyser |
| ■ X-AnalyserOPT/SC | Graphical display of physical data for X-Analyser |

For further information with respect to bus interfaces, please refer to the appropriate data sheet.

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