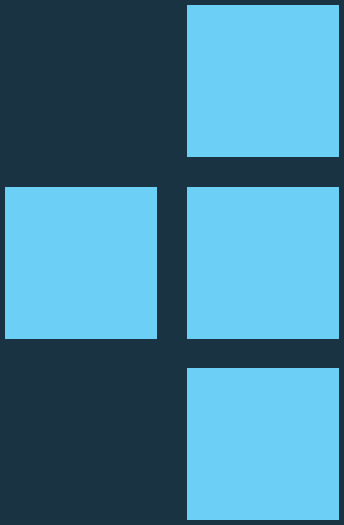
Influx

ANALYSER



Out the box dataloggers

connect, simply configure and go

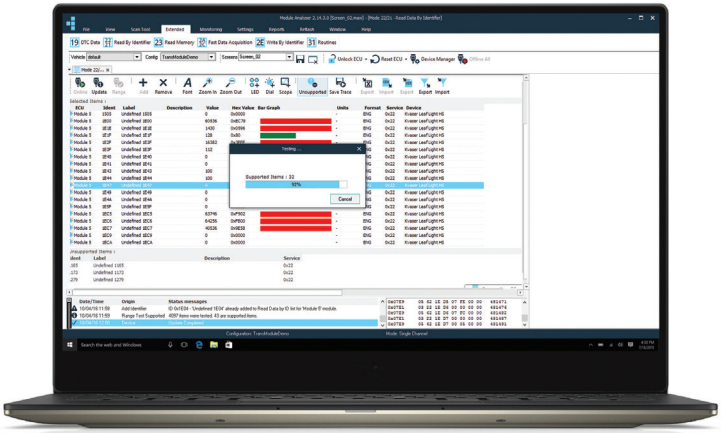
Influx
ANALYSER

Influx Technology's Module Analyser software offers five CAN bus network analysis tools in one single package.

A 5-in-1 easy-to-use CAN bus analyser with the following functions:

- Integrated ODX/MDX editor
- CAN and LIN BUS monitoring via DBC/LDF files. A DBC file editor
- Automotive OBD ISO15765 and J1939 Scan tool
- Automotive UDS ISO14229 support
- Data acquisition and logging.

Why use Module Analyser?



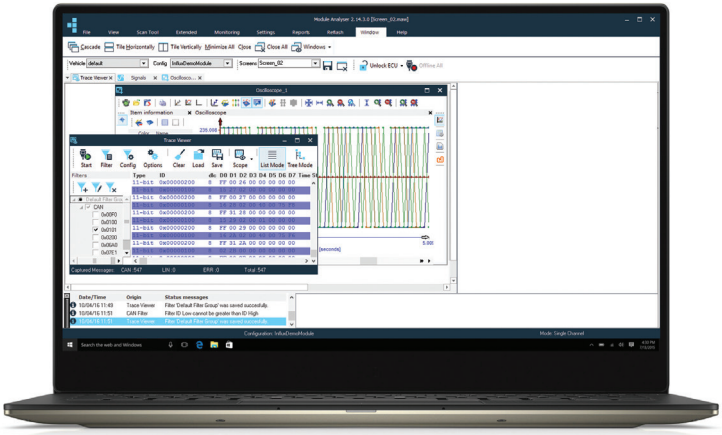
CAN network analysis tools often require you to use a separate application for automotive functions such as J1939, UDS diagnostics, module reprogramming and CAN monitoring functions. Module Analyser brings these features together in one single environment.

Reverse engineering - building and editing an ODX

This is a powerful feature of Module Analyser. Module Analyser can build a framework ODX file in minutes for any UDS compliant production vehicle. It does this by scanning the module for valid responses. This unique functionality gives you access to the diagnostic database which is not available on the CAN bus.

The ODX file created by the scan process can be transferred to our Rebel data loggers for continuous monitoring.

CAN and LIN BUS Monitoring

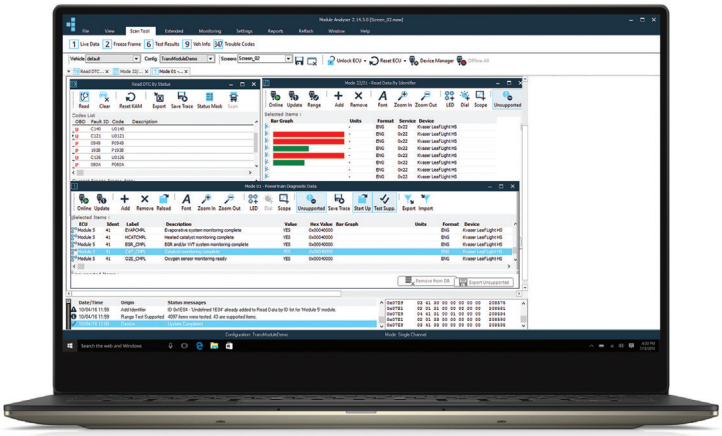


Module Analyser gives you the ability to capture, view and monitor CAN BUS and LIN BUS traffic.
It can be used to monitor the CAN network integrity and for troubleshooting.

Some of the useful CAN monitoring features are:

- Filters can be added to narrow your search.
- Signals can be imported to the database from the CAN DBC & LIN LDF file or manually added.
- Data can be viewed graphically on scopes and other devices.
- The Message constructor can transmit messages on to the network.
- Record and playback received messages.
- Use filters to define required messages.
- Import a previously recorded trace to simulate other network devices.
- DBC file editor.

Diagnostics - Scan Mode and Extended Mode



Module Analyser supports ISO15765 and ISO14229 diagnostic protocols. Also J1939 scan mode.
It supports ODX and MDX diagnostic databases.

Scan mode

In the basic OBD mode this enables:

- EOBD/OBDII data retrieval, analysis and single click reports.
- Live monitoring of emissions parameters including data such as engine speed, vehicle speed, engine temperature, manifold pressure, intake air temperature etc.
- Monitor and clear emissions trouble codes (DTCs).
- Read vehicle information.

Extended diagnostic mode

In the extended mode the following advanced functions are possible:

- Monitor engine parameters from address and parameter identifiers (PIDs).
- Read and write PIDs.
- Fast data acquisition.
- Acquire and clear advanced diagnostic trouble codes.
- Execute test routines.

Data Acquisition

Data Analysis is included in Module Analyser enabling you to monitor live data graphically. In 'record mode', data can be post analysed and exported to different formats.

Data analysis functions include:

- Twin cursors.
- Zooming in/out on points of interest.
- Sample points.
- Adjustable min/max axis.
- Calculated channels.

Export formats supported include MDF, Vector® DAT, MathWorks® MAT, HBM ncode s3t and CSV.

Module Reprogramming

Module Analyser Plus OEM version allows for module reprogramming.

- Security mode access.
- Retrieve VID blocks.
- User defined routines include Seed & Key.

Module Analyser and Data Logging

Module Analyser can now be used with the Rebel CT and Rebel LT data loggers.

- The Rebel data logger can now be used as a J2534 pass thru interface device.
- ODX files created by Module Analyser can be edited and exported to the Rebel data loggers, a Kvaser or a third party tool.
- You can record CAN traffic with Module Analyser and replay it through the Rebel data logger or a Kvaser interface.

Hardware Compatibility

Influx Technology data loggers are now compatible with Module Analyser.

Influx Technology is a Technical Associate and Qualified Sales Associate of Kvaser AB. Module Analyser is compatible with Kvaser interface devices.

The Module Analyser Plus version supports Pass Thru J2534 compatible devices.

Description	Standard	Plus
All Influx Technology Rebel CT and LT data loggers	X	X
All Kvaser CAN or LIN hardware interface devices	X	X
CANdo CAN interface device		X
TotalPhase Komodo CAN Duo interface device		X
Pass Thru J2534 compatible devices such as Drewtech ™ Mongoose		X

Some Softing™ Gmbh and Vector™ Gmbh devices are compatible. (Please contact us for more details.)

Automotive Diagnostic Functions

Function	Description	Standard	Plus
OBD Services	Monitoring powertrain diagnostic data (Mode 1)	X	X
	Retrieving freeze frame diagnostic data (Mode 2)	X	X
	Reading emissions related diagnostic trouble codes (Modes 3,4 & 7)	X	X
	Retrieving test results for non-continuously monitored systems (Mode 6)	X	X
	Reading vehicle information	X	X
UDS Extended Services	Advanced diagnostic trouble codes (Mode 18 or 19)		X
	Reading data by identifier (Service 22)		X
	Read memory by address (Service 23)		X
	Fast data acquisition (Service 2C & 2A)		X
	Write data by identifier (Service 2E)		X
	Routine Control (Service 31)		X
Module Databases	OBD data (Service 1 to 10)		X
	SAE data DTC's (<P1000)		X
	ISO15765/ISO14229	X	X
	Configurable data base for modules	X	X
Security file support & management	Unlock ECU tool (OEM version only)*		
	Security file manager (OEM version only)*		
	Security Library (OEM version only)*		
ODX/MDX/GDX diagnostic database	File import/export		X
	Editing and on-line reporting (retrieves & reports valid responses)		X
Configuration manager	Create and edit module setting/PID's/signals etc....	X	X

* OEM version developed with OEMs and restricted to their use.

CAN/LIN Network Monitoring Functions

Function	Description	Standard	Plus
Signals	DBC (CAN) Support		X
	LDF (LIN) Support		X
	J1939 (29 bit) Support		X
Trace Viewer	Node Simulation (Record/Playback)		X
	CAN monitor (DBC database import)		X
	LIN monitor (LDF database import)		X
	Multiple trace viewer windows with separate filters		X
Message constructor	Multiple message constructor windows		X
	Tasks database	X	X
Python Scripting	Tool & Library		X
BUS Statistics	Tool (Only on Kvaser device)	X	X
Reports	Expanded/simple by vehicle history		X
	Full OBD (Mode 1 to 10)		X
	DTC (Extended & Freezeframe data)		X
Data Visualisation	Oscilloscope	X	X
	Dial displays		X
	LED displays		X
Export Data formats	Microsoft™ Excel (*.csv)	X	X
	Matlab™ data file (MAT)		X
	Vector™ data file (MDF/DAT)		X
J1939	Database	X	X
	DBC Import	X	X
	Signals monitoring	X	X
	Trace veiwer	X	X

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