



X-Analyser 3

Network Analysis & Simulation Tool

for

CAN, CAN FD, NMEA2000, J1939, CANopen, LIN

The screenshot displays the X-Analyser 3 interface with several key components:

- Raw Data Area:** A table showing CAN bus data with columns for Timestamp, Channel, Direction, Frame Id (hex), Frame Type, Data Length, and Data.

Timestamp	Channel	Direction	Frame Id (hex)	Frame Type	Data Length	Data
00:07:10.5770000	CAN 1	TxReq	Cluster_Information (0x430)	Std. Frame	7	39 00 82 FF C0 00 00
00:07:10.5630000	CAN 1	TxReq	0x433	Std. Frame	8	00 10 00 00 00 20 00 00
00:07:10.5840000	CAN 1	TxReq	DesiredTorqueBrakeConfigTelltale (0x210)	Std. Frame	7	FF FF 30 A0 90 00 0E
00:07:10.5850000	CAN 1	TxReq	WheelSpeeds (0x408)	Std. Frame	8	20 55 20 5C 2D 53 2D 4D
00:07:10.5890000	CAN 1	TxReq	TorqueDataAndEngineFlags (0x200)	Std. Frame	7	02 00 02 00 02 00 00
00:07:10.5900000	CAN 1	TxReq	TransmissionGearTorqueConverter (0x230)	Std. Frame	8	00 00 77 FF FF 00 00 40
00:07:10.5920000	CAN 1	TxReq	EngineRPMHighRateOfChange (0x201)	Std. Frame	8	0C 20 70 00 2D 60 00 7D
00:07:10.5960000	CAN 1	TxReq	Engine_Torque_Status (0x360)	Std. Frame	8	0C 70 C8 2E 44 78 80 87
- Real-Time Playback:** A control panel with a 'Stop' button and a progress bar.
- Signals Values:** A table listing signal names and their current values.

Name	Value	Units
Engine_Speed_RPM	780	RPM
Master_Vehicle_Speed	16.85	KPH
Accelerator_Pedal_Position	0	% Depressed
BRAKE_PEDAL_SW_STATUS	1	
AIR_INTAKE_MANIFOLD_TEMP	15	Degrees C
FuelLevelPercentage	22.352949	% Full
Engine_Coolant_Temperature	84	Degrees Celci
- Scope/Graph Area:** A multi-panel graph showing waveforms for Engine_Speed_RPM (RPM), Accelerator_Pedal_Position (% Depressed), and Master_Vehicle_Speed (KPH) over time.
- Gauges based on Signals:** Three circular gauges for Master_Vehicle_Speed (Kmph), Engine_Speed_RPM, and Accelerator_Pedal_Position, along with a vertical thermometer for Engine_Coolant_Temperature (C).
- Transmitters Statistics:** A table showing statistics for 'Kvaser Virtual CAN Driver 0'.

Category	Value
Rx Frames	0
Tx Frames	200405
Error Frames	0
Bus State	Online
Bus Load	12.59%
Max Bus Load	13.41%
Rx Frames/s	0.00
Tx Frames/s	491.70
Lost Frames	0



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Features

- Send and Receive CAN/CAN FD/LIN data on Multiple Channels
- Filter by Message ID, Names, Values
- CAN Higher Layer Protocols (CANopen, SAE J1939, NMEA2000)
 - J1939 – All PGN and SPNs embedded in tool
 - CANopen Message Interpretation and Network Management Control
 - NMEA2000 PGN name interpretation and transmission
- Interpret data as engineering signals (e.g. Motor torque, engine speed etc.)
 - Interactive CAN & LIN Message Transmission and Signal Editing
 - Compatible with industry standard CAN and LIN databases
 - Gauges and Scope display for engineering Signals
- Diagnostics for Developers such as ISO 15765/UDS transmitters
 - Read/Clear DTC for ISO 15765/UDS
- CAN Physical Layer Oscilloscope – Preview Feature
 - View CAN_H and CAN_L using a PicoScope 2206b PC oscilloscope
- Flexible multiple windows displays which can be stored in project file
- PC Interfaces for CAN/LIN/CAN FD (PCI, USB, Ethernet, Wi-Fi)
 - Multiple vendor CAN/LIN interfaces including Kvaser