

Number of channels and supported bus systems

	CanEasy	CANalyzer	CANoe
Number of configurable CAN channels	99	32	32
Number of configurable LIN channels	99	64	64
Number of configurable MOST channels		16	16
Number of configurable FlexRay channels (clusters)		32	32
Number of configurable Ethernet channels	99	32	32
Number of configurable K-Line channels		32	32
DBC databases (A429, AFDX®, CAN, CAN FD, CANaero, CANopen, ISO11783, J1708/J1587, J1939)	✗	✗	✗
LDF databases (LIN)	✗	✗	✗
AUTOSAR System Descriptions (CAN, Ethernet, FlexRay)	✗	✗	✗
DBC file editor	✗	✗	✗
LIN file editor (text based)	✗	✗	✗
LDF Explorer (LIN)	✗		
Display of AUTOSAR files for CAN and FlexRay	✗		

Supported hardware

	CanEasy	CANalyzer	CANoe
Vector	✗	✗	✗
Intrepid	✗		
Peak	✗		
Softing	✗		
Melevix	✗		
Kvaser	✗		
MHS	✗		
IXXAT	✗		
National Instruments	✗		

Functions for bus analysis and monitoring

	CanEasy	CANalyzer	CANoe
Central configuration of analysis windows and logging	✗	✗	✗
Reuse of measurement setups from other CANalyzer or CANoe configurations	✗	✗	✗
Trace Window: Detail, Difference and Statistics views for displaying the time flow of events	✗	✗	✗
Display bus statistics at the node or frame level (AFDX®, CAN, FlexRay, LIN)	✗	✗	✗
Display bus statistics on channel level	✗	✗	✗
Display bus statistics in histogram representation and statistics report (A429, CAN, FlexRay, ISO11783, J1939, LIN)	✗	✗	✗
Trigger: Control data logging (A429, AFDX®, CAN, FlexRay, ISO11783, J1939, LIN)	✗	✗	✗
Symbol mapping: Link system variables/environment variables/signals	✗	✗	✗
Momentary display of bus signals, environment and system variables	✗	✗	✗
Graphic display of signal responses	✗	✗	✗
Display of physical bus level and logical interpretation (CAN, FlexRay, LIN)	✗	✗	✗
Display of system states, discrete values and CAN frames/bursts	✗		✗
Trace Window Temporarily reduce the displayed data	✗	✗	✗
Channel Filter: Reduction of the displayed data	✗	✗	✗
Variables Filter: Reduction of the displayed data	✗	✗	✗
Signal Filter: Reduction of displayed data	✗		
Offline Mode: Replay a logged measurement	✗	✗	✗
Data Export: Use the logged data in other programs	✗	✗	✗

Functions for simulation and modeling

	CanEasy	CANalyzer	CANoe
Automated remaining bus simulation	✗		
Interactive Generator (A429, AFDX®, CAN, CANopen, ISO11783, J1708/J1587, J1939, LIN, MOST)	✗	✗	✗
Interactive Generator (Ethernet)	✗		✗
Signal Generator (A429, CAN, Ethernet (AUTOSAR PDUs, FlexRay, LIN, MOST)	✗		✗
Graphically create command sequences for stimulation and testing	✗	✗	✗
Generate messages for sending (A429, CAN, LIN)	✗	✗	✗
Macros: Tool automation	✗	✗	✗
Start Value Window: Predefined values for system variables/environment variables/signals, which are used for measurement start	✗	✗	✗
.NET Snippets Tool automation	✗		✗
LIN Interactive Master (LIN)	✗	✗	✗
LIN Node Simulation (Master/Slave)	✗	✗	✗
Replay a logged measurement in parallel to a running simulation	✗	✗	✗
Variables with global validity, can be applied to all analysis windows and logging	✗		✗
Symbolic display of the network	✗		✗
Simulation Setup: Filters for messages and channels, dependent on bus systems	✗		✗
Define/access Environment Variables	✗		✗
Model design/generation/execution out of the network description (CAN, FlexRay, ISO11783, J1939, LIN, MOST)	✗		✗
Execute simulation models	✗		✗
Modeling libraries (e.g. transport protocol, interaction layer, network management), OEM-specific extensions	✗		✗

Integrated or external programming capabilities

	CanEasy	CANalyzer	CANoe
Visual Basic for applications	✗		
CAPL functions for bus access (A429, AFDX, CAN, FlexRay, ISO11783, J1708/J1587, J1939, LIN, MOST)	✗		
Visual Sequencer	✗	✗	✗
C-API for developing application-specific code	✗	✗	✗
.NET programming (C#) for implementing simulated network nodes, test modules or Snippets	✗		✗
Ethernet TCP/IP stack support (Ethernet)	✗	✗	✗
Central database with events	✗		
Changing communication matrix at simulation time	✗		
Create panels via API	✗		
Run as windows service	✗		

Panels for extending the graphic user interface

	CanEasy	CANalyzer	CANoe
Create/execute display panel elements	✗	✗	✗
Create/execute control panel elements	✗	✗	✗
ActiveX panel elements (DCX, .NET)	✗	✗	✗
Auto generated panels	✗		
Graphically accelerated panels	✗		
Ability to extend panels by own controls	✗		

Diagnostic Feature Set

	CanEasy	CANalyzer	CANoe
TP Observer (CAN, FlexRay, J1939, ISO11783)	✗	✗	✗
TP Observer (Ethernet)	✗	✗	✗
Diagnostic Observer: Symbolically interpret diagnostic messages	✗	✗	✗
Diagnostic Tester: Consists of Diagnostic Console and Fault Memory Window	✗	✗	✗
Diagnostics Parameters Window	✗	✗	✗
UDS/KWP2000 support	✗	✗	✗
Diagnostics with CAPL	✗	✗	✗
Basic Diagnostics: Diagnostic support without description file	✗	✗	✗
Display diagnostic description files (ODX/CDD)	✗	✗	✗
.NET diagnostics scripting	✗		✗
Diagnose Simulation	✗		✗

Integration of other interfaces or additional options

	CanEasy	CANalyzer	CANoe
Implement your own functions in C	✗	✗	✗
Link analog/digital measurement hardware from third-party suppliers	✗		✗
COM Server: Automation interface for remote control	✗	✗	✗
Integrate Simulink models in the simulation	✗		✗
Data exchange with LabVIEW	✗	✗	✗
AMD/XCP Read or write to memory locations in the ECU and analysis of ECUs	✗		✗
Signal protocol DLL (Ethernet): Interpret signals in proprietary protocols	✗	✗	✗
TCP/IP socket access with CAPL	✗	✗	✗
RS232 access with CAPL	✗	✗	✗

CANoe option .AMD/XCP

	CanEasy	CANalyzer	CANoe
XCP/CCP Window for configuration	✗		✗
Online access to internal ECU values in RAM over XCP on CAN, XCP on Ethernet (TCP and UDP), XCP on FlexRay, XCP on LIN and CCP	✗		✗
Writes scalar, multi-dimensional, and complex variables to the ECU's RAM via Download	✗		✗
Supports ASAM MCD-2 MC (A2L) databases	✗		✗
Support of scalar CCP/XCP data types ([UBYTE, SBYTE,...])	✗		✗
Secure access via Seed & Key	✗		✗
Parallel access to multiple ECUs	✗		✗
Address Update for ECU symbols from Linker Map file	✗		✗

Handling

	CanEasy	CANalyzer	CANoe
Drag & Drop	✗	✗	✗
Clear Arrangement	✗	✗	✗
Expandability (Plug-Ins)	✗		

License model

	CanEasy	CANalyzer	CANoe
Workstation	✗	✗	✗
User Licence	✗		
USB-Dongle	✗	✗	✗
USB-Dongle Application on Stick	✗		
Floating License	✗		
Leasing	✗		

CANdela

	CanEasy	CANdela
Functions		
Import and export from/to different exchange formats (ODX, AUTOSAR DEXT, CSV, RTF, HTML, A2L, XML, CDI)	✗	✗
Supports document templates	✗	✗
Support of different protocols on different networks (UDS, KWP2000, OBD, WWH-OBD, CAN, CAN FD, LIN, MOST, FlexRay, DoIP)	✗	✗
Comparison views between two versions	✗	✗
Documentation and display of descriptions of DTCs at the error memory processing	✗	✗
Different views of diagnostic trouble codes	✗	✗
Structured operation concepts	✗	✗
Single source data base	✗	✗
Simple editing of Text-ID (TID)	✗	✗
Graphical telegram overview for request and response data for visualization of bit and byte positions	✗	✗
Data exchange		
Import of layers and services from ODX descriptions (data presentation with ODXStudio View)	✗	✗
Diagnostic specification export (RTF, HTML)	✗	✗
Service overview export (CSV)	✗	✗
Import of signals and conversions from an AUTOSAR System Description	✗	✗
Import of data in A2L-format	✗	✗

CANape

	CanEasy	CANape
Online calibration via CCP, XCP	✗	✗
Online calibration of hex and other binary files	✗	✗
Diagnosis via KWP2000, UDS, DoIP	✗	✗
Support of CDD and ODX files	✗	✗
Offline data analysis	✗	✗
Run-time environment for "Software in the Loop"	✗	✗
Automation interface (via C-API, COM, ASAP3, ASAM MCD-3 MC, iLinkRT)	✗	✗
Function library, e.g. for calculating several signals or filtering noisy signals	✗	✗
Visualize Simulink and Stateflow models	✗	✗
Creation and integration of user-specific display and operating elements	✗	✗
Recording CAN bus data	✗	✗
Analysis of bus communication in the trace window	✗	✗
Triggering options for targeted data recording	✗	✗
Standalone data logger	✗	✗
CCP and XCP measurements incl. Seed & key handling	✗	✗
Support the buses CAN (FD), Ethernet, BraodR, SOME/IP, FlexRay, LIN, SAE J1939, CANopen, GMLAN, K-Line	✗	✗
Signal display over time or in XY display	✗	✗
Automatic evaluation of measured data	✗	✗
Export sequences from measurement files with synchronous video editing	✗	✗
Characteristic variable adjustment parallel to the measurement data acquisition	✗	✗
Offline mode for ECU parameters	✗	✗
Editors for ASAP2, DBC	✗	✗
Viewer for Fibex, LDF, ODX, CDD, ARXML	✗	✗