

CanEasy Datasheet

Simulation, Testing, Diagnostics and Analysis for Automotive Communication Networks

CanEasy is a tool for simulating and analyzing in-vehicle networks (e.g., CAN, LIN, and Automotive Ethernet), with a focus on restbus simulation, automation, logging/analysis, and diagnostic workflows.

Key Benefits

- Fast setup of simulations and sequences (scheduler, macro recorder).
- Analysis and logging workflow with trace and plotting capabilities, including import of common log formats.
- Extensible via plug-ins and integrated scripting/automation mechanisms.
- Broad adapter support (e.g., Softing, IXAT, Vector, National Instruments).

Functional overview

	CanEasy Professional	CanEasy Standard
Number of busses	99	99
Bustypes:		
- CAN (FD)	✓	✓
- LIN	✓	✓
- Automotive Ethernet	✓	✓
Protocols:		
- CCP/XCP	✓	
- SOME/IP	✓	
- DoIP	✓	
- UDS	✓	
- J1939 (incl. FMS)	✓	✓
- BAP	✓	✓
Playback	✓	✓
Trigger	✓	✓
Scheduler	✓	✓
Macrorecorder	✓	✓
Trace window	✓	✓
Signal-Plots	✓	✓
Datenbase editors	✓	✓
Datebase formates (DBS, ARXML, LDF)	✓	✓
Recording formats:		

- CELOG	✓	✓
- ASC, BLF, MDF	✓	✓
Diagnostics formats (CDD, PDX, ODX)	✓	
Fault memory windows	✓	
Signal-Monitors	✓	✓
User-Panels	✓	✓
Automated Panels	✓	✓
Search functions	✓	✓
Snapshots	✓	✓
Standard-Plug-Ins	✓	✓
Matlab/ Simulink-Plug-In	✓	✓
Integrated VBA/VSTA editor	✓	✓
MultiStudio	✓	✓
External usage of the API	✓	✓
Environment variables	✓	✓
CAPL converter	✓	
CAPL loader	✓	
RichPanels	✓	
RichPanels Runtime Generator	✓	

User Interface

- Attractive graphical RichPanels
- Database editors
- Automatically generated panels

Automation

- Integration of any framework (robot framework, Matlab/Simulink)
- Programming of dynamic processes
- Scheduler for creating sequences

Diagnostics

- Support of UDS, DoIP, OBD2 and XCP/CCP
- Import of CDD, ODX, PDX, ELF, MAP and A2L files
- Fault memory window
- Reading and writing of ECU variables (via XCP and UDS)
- Editing services and parameters

Compatibility

- Import of complete CANoe configurations
- Using CANoe Panels
- Conversion of CAPL nodes as CanEasy plug-ins
- Execution of CAPL test modules
- Support of the file formats CFG, BLF, ASC, CAN, XVP, CNP

Residual bus simulation

- Import of the communication matrix (DBC, ARXML, LDF)
- Simulation of non-existent control units
- Support of various protocols (ISO-TP, UDS, DoIP, CCP/XCP, SOME/IP)
- Signal modulations and arithmetic functions
- Scheduler as LIN send controller

Analysis

- Recording and playback functions
- Trigger and alarm functions
- Bus load and analysis of cycle times
- Plots for measuring signal values
- Traces for the analysis of logs
- Import of ASC/LOG, BLF, MDF, PCAP
- FMS (J1939): Standardized commercial vehicle data

Extension

- Extending the RichPanels with individual controls
- Creation of user plug-ins in any programming language
- Directly programmable in VBA and VSTA

Hardware

- Support of many various hardware adapters, e.g. Softing, IXXAT, Vector Informatik, National Instruments, Kvaser, MHS, Peak System, Intrepid, ETAS.

Scope of Maintenance Contract:

- Technical support (questions, issue reporting, installation assistance)
- Quarterly CanEasy updates with all new features