



PRODUCT DATA SHEET



ECU-TEST makes automation easy

With ECU-TEST you can intuitively create test cases for automotive software in every development phase and run them automatically – even without any prior knowledge of test automation and programming. We have designed the tool in such a way that the test quality is kept exceptionally high at all levels, although the effort it takes to use it is extremely low.

Key features at a glance

- Supports a broad range of test tools and test environments (MiL/SiL/PiL/HiL/vehicle)
- Uniform and effective automation of the entire test environment
- Smooth collaboration through Diff and SCM integration (GIT, SVN)
- Automation of distributed test environments
- Intuitive graphical user interface
- Generic test-case description

Integrated trace analysis module (see TRACE-CHECK data sheet):

- Easy analysis specification via
 - Triggered analyses
 - Timing diagrams
 - Python interface
- Support for all common recording formats
- High reusability of analyses
- Clear presentation of results
 - Transition to the interactive SignalViewer
 - Plots enriched with result data

Interfaces and expandability

ECU-TEST can be readily integrated into existing tool chains:

- COM-API for remote control
- Object API (for Python, Java und .NET) for generating and manipulating all artifacts (test cases, configurations, etc.)
- Report generators for different output formats
- APIs for different test-case generators
- Jenkins plug-in
- Easy integration of existing libraries (Python, C/C++, .NET)
- User-specific tool connections and test steps

Supported formats and standards

Standards:

- ASAM XiL API version 2.0.1 and 2.1.0 (MA, EES, ECUC/M Port)
- ASAM ATX
- UDS (ISO 14229-1)
- KWP2000 (ISO 14230)
- ISO-TP (ISO 15765-2)
- DoCAN (ISO 15765-3)
- SAE J1939

Bus description:

- ARXML (Classic Platform) 4.1.1 to 4.3.1
- ARXML (Adaptive Platform) to 10/18
- DBC
- FIBEX to 4.1.1/FIBEX for Ethernet 4.1.2
- LIN Description File (LDF)

ECU description:

- ASAP2 Database (A2L)
- Executable and Linkable Format (ELF)
- Intel HEX
- Motorola S19

Raw data trace formats:

- ASC, BLF, TTL: CAN and FlexRay recordings
- PCAP: Ethernet recordings

Signal-based trace formats:

- CSV
- ERG: CarMaker
- ECAL 5.0, 5.1
- MAT: MATLAB/Simulink, ControlDesk
- MDF 3.0, 3.1, 3.2, 3.3, 4.0, 4.1
- RDB: VTD
- STI, STZ 2.0.1 ASAM XiL-API
- TDMS: National Instruments

Other formats supported on request.



Supported hardware and software

- AEV Functional Engineering Platform (FEP)
- ASAM XiL API (MA, ECU, EES)
- ASAP STEP
- ATI VISION
- AVL PUMA
- Beckhoff TwinCAT
- BMW E-Sys
- CANWAY CW-FIU
- Digitalwerk ADTF
- dSPACE ControlDesk (DS1006/1007, Scalexio, VEOS)
- dSPACE ModelDesk
- EA UTA12
- ETAS BOA CAN hardware
- ETAS FIU ES4440
- ETAS INCA
- ETAS LABCAR Operator
- Ethernet (SOME/IP-SD, TCP, UDP, PCAP)
- FEV MORPHEE
- Gigatronik flex-i
- Hard&Soft fault simulation
- HP ALM (QualityCenter)
- IBM Rational Quality Manager
- IPG CarMaker
- ITI SimulationX
- IXXAT FlexRay CCM
- Kristl Seibt & Co. Tornado
- Lauterbach Trace32
- MAGNA Telemotive blue PiraT
- Mathworks MATLAB/Simulink
- Mathworks Simulink Realtime Kernel
- Mechanical Simulation CarSim
- MicroNova NovaSim
- Multimedia (Webcam, Video, ...)
- National Instruments LabVIEW
- National Instruments VeriStand
- National Instruments VISA-Interfaces
- OPAL-RT RT-LAB
- PEAK CAN/LIN-Interfaces
- PLS UDE Debugger
- QTronic Silver
- QUANCOM Relays-, Optocoupler-, A/D- and D/A-converter cards
- RA Consulting DiagRA
- RA Consulting Silver Scan-Tool
- SAE J2534 und J2534/2 PassThru API
- Serial Interface
- Scienlab Charging Discovery System
- Scienlab EnergyStorageDiscover II
- Softing CAN-Interfaces
- Softing Diagnostic Tool Set
- Softing EDIABAS
- SSH Interface
- Synopsys Virtualizer

- TraceTronic cTestBed
- TraceTronic REMOTE-COMMAND
- TTTech TTX Connexion
- Vector CAN/LIN/FlexRay-Interfaces
- Vector CANape
- Vector CANoe
- Vector CANalyzer
- VIGEM Car Communication Analyzer
- Vires Virtual Test Drive
- VW ODIS
- X2E Xoraya Data Logger

Test management tools:

- HP ALM
- Micro Focus Octane
- CA Agile Central (Rally)
- SIEMENS Polarion
- IBM RQM
- PTC Integrity LifeCycle Manager

Source code management tools:

- Apache Subversion
- Git

On request we will gladly realize the linkage of your specific hardware or software.