



ECU Network Validation and Diagnostic

ENViDia is the tool for automatic functional, diagnostic and integration tests. ENViDia is a unique instrument for the ECU software validation.



MAIN FEATURES:

- ⊙ Multiple communication BUS (CAN, LIN, KLine)
- ⊙ Multiple protocol support (KWP2000, UDS)
- ⊙ Analog signals acquisition and generation
- ⊙ Input/output digital lines
- ⊙ Load / fault injection unit
- ⊙ Compact solution
- ⊙ Easy to configure Test sequences
- ⊙ Integrated with car-maker standard formats (DBC, CDD, LDF)
- ⊙ HTML report with diagrams and log related timestamps

SYSTEM SPECIFICATION

Specification	Description	Note
Analog Input	32 differential input channels	Range: $\pm 24\text{Vdc}$ @30KHz
Analog Output	4 analog output channels	Range: $0\div 10\text{Vdc}$
Digital Input	16 isolated digital input	Range: 24Vdc
Digital Output	32 SPST relay output	Range: 24Vdc @2A
Fault Unit	24 Channels (Open Circuit, Bad Load, CC-Vbat, CC-GND, CC-Pin to Pin)	Range: 10A continuous 30A peak (2 sec max)
Communication BUS	CAN, LIN, Kline	
Diagnostic Protocols	<ul style="list-style-type: none"> ➤ ISO 15765-4 (Diagnostic on CAN) ➤ ISO 14230-4 (KWP2000) ➤ ISO 14229 (UDS) ➤ ISO15031 (OBD II Protocol) ➤ ISO 11898-1 (CAN FD) 	<ul style="list-style-type: none"> ➤ CAN 2.0A (11-bit) ➤ CAN 2.0B (29-bit)
Dimensions	WxHxD : 540 x 480 x 700 mm	



FLEXIBILITY AND MODULARITY

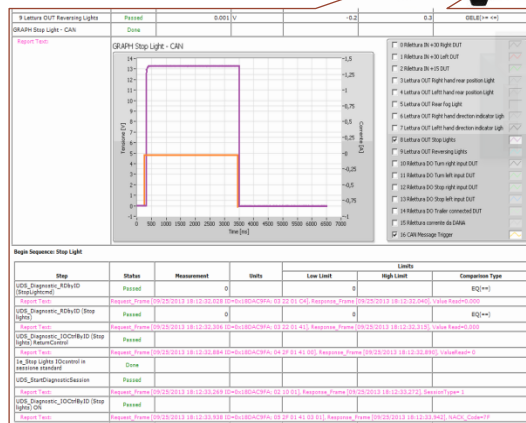
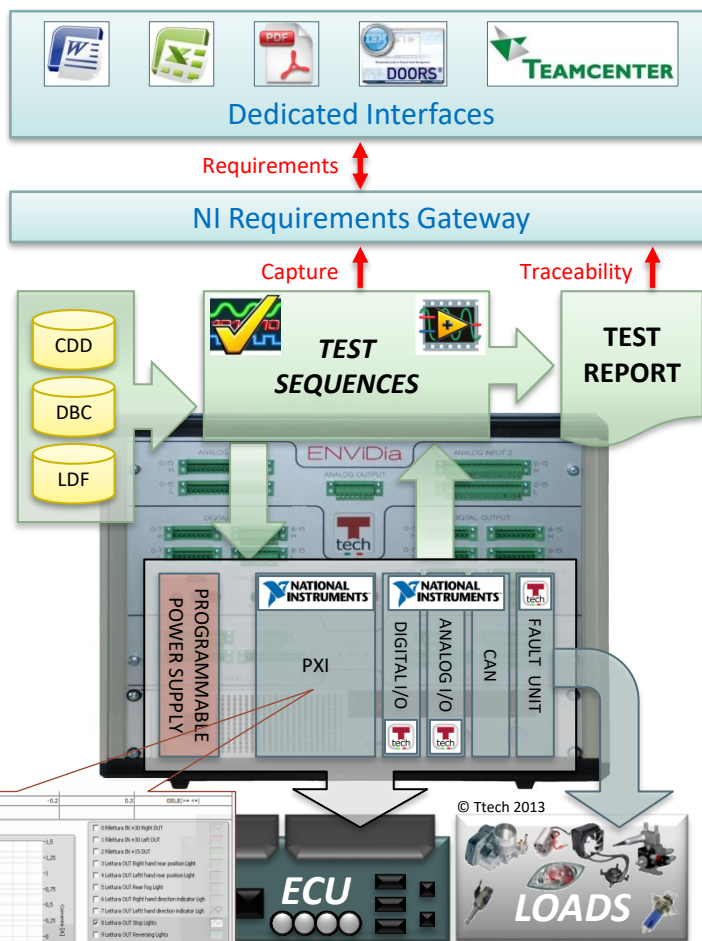
ENViDia is the ultimate solution for validation and integration tests of ECU, with the diagnostic protocol support.

ENViDia can be scaled on customer needs to achieve the performance suitable for the application. Moreover with its customizable test sequences the system can support different product configurations. The user's privileges support will ensure easy test supervision and engineer's code customization. The presence of real loads, with the opportunity to connect bad loads, ensures the complete tests coverage.

ENViDia can link its test patterns with the requirements from the most common tools (Doors, Team Center, etc) to trace the coverage of the validation and to guarantee the full chain of the prototyping process

APPLICATIONS

- Functional ECU validation
- Diagnostic ECU validation
- Diagnostic test patterns
- ECU integration tests
- Network simulation tests
- Automatic DTC validation



CONFIGURATION AND OPTIONS

Product code	BUSes	Description
ENViDia	CAN Lin Kline	Standard Validation bench, suitable for ECU functional and diagnostic test with real loads
ENViDia.7z	CAN Kline	Standard Validation bench, suitable for FGA standards compliance test