

Feature Matrix Options .J1939 (incl. NMEA 2000[®]) and .ISO11783 for CANalyzer and CANoe

	CANalyzer .J1939	CANoe .J1939	CANoe .ISO11783	
Trace Window: J1939 specific columns	✓	✓	✓	Presentation of PGN, SA, DA, Prio, DP, PGN name, sender name, protocol interpretation and protocol violation with corresponding column filters
Trace Window: ISO11783	-	-	✓	Interpretation e.g. for Virtual Terminal / Process Data / File Server
Trace Window: Context search	✓	✓	✓	Previous/next PG from same SA / request-response / transport protocol
Trace Window: Analysis filter	✓	✓	✓	Network Management / Diagnostics / proprietary PGs
Trace Window: Analysis filter	-	-	✓	Virtual Terminal / Process Data / File Server / Sequence Control
J1939 Filter Block (incl. dynamic filter)	✓	✓	✓	Filter related to PG – dependent or independent from SA, DA and prio; Dynamic SA/DA filter based on J1939 Network Management
J1939 Node Filter	✓	✓	✓	Filter related to CA address (source/destination/global)
Interactive Generator Block: J1939 specific parameters	✓	✓	✓	Separate configuration of PGN, SA, DA, Prio, etc.
CAPL: Extensions for PGs	✓	✓	✓	Language extensions for processing of parameter groups
J1939 Scanner	✓	✓	✓	Monitors and displays communication and CAs of dynamic network and provides functions for reconfiguration of SAs and J1939 device names
DTC Monitor	✓	✓	✓	GUI to the J1939 diagnostic protocol
OBD I/M Monitor	✓	✓	✓	On Board Diagnostic Inspection and Maintenance Monitor
Diagnostic Memory Access	✓	✓	✓	Read, write and monitor SPNs and memory areas
GNSS Monitor	✓	✓	✓	Recording of position data and graphical display of covered path
GNSS Simulator	✓	✓	✓	Simulation of position data (GNSS/GPS)
Virtual Terminal	-	-	✓	Enables tests with different types of VTs (resolution, monochrome, colour)
Interactive Task Controller	-	-	✓	Process data dialog allows to access individual data of any implement
Transport Protocol: BAM	✓	✓	✓	Broadcast Announce Message (point to multipoint)
Transport Protocol: CMTD	✓	✓	✓	Connection Mode Data Transfer (point to point)
Transport Protocol: Fast Packet	✓	✓	✓	Used to transfer position data (NMEA 2000 [®])
Transport Protocol: ETP	-	-	✓	Extended Transport Protocol (for transfer of object pools)
Example Database: J1939	✓	✓	✓	Database preconfigured with standardized J1939 PGNs
Example Database: NMEA2000	✓	✓	✓	Database preconfigured with standardized NMEA 2000 PGNs
Example Database: ISO11783	-	-	✓	Database preconfigured with standardized ISO 11783 PGNs
Database: J1939 communication matrix	✓	✓	✓	Easy configuration of interrelationships between signals, PGNs and CAs
Demos: J1939	✓	✓	✓	Examples for diagnostics, exhaust sys., tire pressure monitoring sys., etc.
Demos: NMEA2000	✓	✓	✓	Examples for position data processing (receiver, replay, waypoints, etc.)
Demos: ISO11783	-	-	✓	Examples with VT, Interactive Task Controller, Address Claiming, etc.
Simulation	-	✓	✓	Simulation of independent nodes for test/simulation of remaining bus
J1939 Interaction Layer	-	✓	✓	Model-based signal-oriented simulation with less or no programming
CAPL Code Generator J1939	-	✓	✓	Enables rapid realization of simulation models from configured database
CAPL: J1939 Nodelayer DLL	-	✓	✓	J1939 specific functions for processing of NMT, PGs and TPs
CAPL: NMEA2000 Nodelayer DLL	-	✓	✓	NMEA 2000 specific functions for processing of NMT, PGs and TPs
CAPL: GNSS Nodelayer DLL	-	✓	✓	Specific functions for complex simulations of a GNSS receiver
CAPL: ISO11783 Nodelayer DLL	-	-	✓	ISO 11783 specific functions for processing of NMT, PGs, TPs, IOP and PDD
Test Feature Set	-	✓	✓	Enables automation of communication tests
J1939 XML Test Module Manager	-	✓	✓	Supports the preparation of complex tests based on the Test Feature Set
J1939-82 Compliance Test Report	-	✓	✓	Simplifies the exchange of test results between supplier and OEM

Legend: ✓ = available
- = not available