

# Feature Matrix Options J1939, NMEA2000, ISO11783 for CANalyzer and CANoe

	CANalyzer and CANoe			
	.J1939	.NMEA2000	.ISO11783 <sup>1</sup>	
Trace Window: J1939 specific columns	✓	✓	✓	Presentation of PGN, SA, DA, Prio, PGN Name and Sender Name
Trace Window: Quick Find	✓	✓	✓	Previous/next PG from same SA/request-response/next TP
Trace Window: View Filter	✓	✓	✓	Same SA/same PGN/all NM PGs/all diagnostic PGs
Filter Block: J1939 specific parameters	✓	✓	✓	Filter related to PG - dependent or independent from SA, DA and Prio
Filter Block: Dynamic Filter	✓	✓	✓	Dynamic filter related to J1939 Device Name contents
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
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: CMDT	✓	✓	✓	Connection Mode Data Transfer (point to point)
Transport Protocol: Fast Packet	-	✓	✓	Used to transfer position data
Transport Protocol: ETP	-	-	✓	Extended Transport Protocol (for transfer of object pools)
Database: J1939	✓	-	✓	Database preconfigured with all standardized J1939 PGNs
Database: NMEA2000	-	✓	-	Database preconfigured with all standardized NMEA2000 PGNs
Database: ISO11783	-	-	✓	Database preconfigured with all standardized ISO11783 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.

	CANoe only			
	.J1939	.NMEA2000	.ISO11783 <sup>1</sup>	
Simulation	✓	✓	✓	Simulation of several 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	-	✓	-	NMEA2000 specific functions for processing of NMT, PGs and TPs
CAPL: ISO11783 Nodelayer DLL	-	-	✓	ISO11783 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  
<sup>1</sup> = .ISO11893 available for CANoe only (not for CANalyzer)