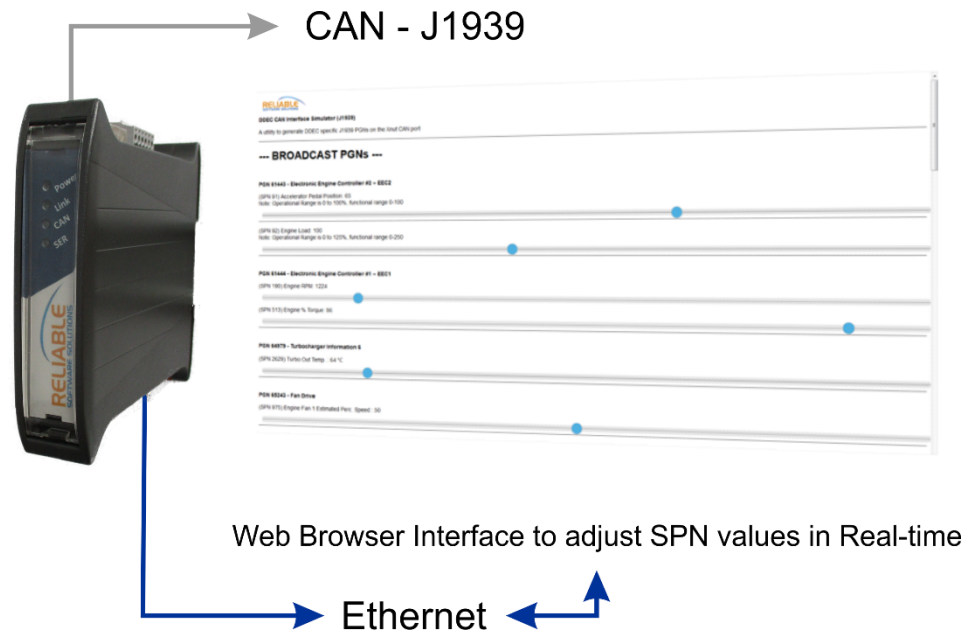


J1939 ECU Simulator

Create a 'virtual' engine for J1939 test environments.



The J1939 ECU Simulator is an application developed for the XNut hardware, which implements a J1939 compliant ECU simulation for specific J1939 SPNs.

This hardware device can be used to test devices like J1939 port readers without the need to connect to a vehicle.

Features of J1939 Simulator

- Supports 37 variable J1939 SPN's
- Message Logging (via Serial debug port)
- J1939 DM1 Support – Simple (Amber/Red Warning Lamp On/Off)
- Full data range simulation for each SPN, allows full range testing
- Power Supply Voltage Range 10-30 VDC

Supported SPNs

PGN	Parameter Group Label	TX Rate	Byte pos	SPN length (bits)	SPN	Name
61443	Electronic Engine Controller #2	50ms	3	8	92	% load at Current Speed
61443	Electronic Engine Controller #2	50ms	2	8	91	Accelerator Pedal Position
61444	Electronic Engine Controller #1	25ms	4,5	16	190	Engine Speed
61444	Electronic Engine Controller #1	25ms	3	8	513	Actual Engine % Torque
64979	Turbo Charger Information 6	1000ms	1,2	16	2629	Turbo Out Temperature
65213	Fan Drive	1000ms	2	8	975	Engine Fan 1 Estimated Perc. Speed
65226	Diagnostic Message 1	10ms	1.3	2	3040	Alarm Amber
65226	Diagnostic Message 1	10ms	1.5	2	3039	Alarm Red
65243	Engine Fluid Level / Pressure 2	500ms	4,5	16	157	Engine Injector Metering Rail 1 Pressure
65247	Electronic Engine Controller #3	500ms	1	8	514	Nominal Friction Perc. Torque
65247	Electronic Engine Controller #3	500ms	2,3	16	515	Engine Desired Speed
65252	Idle Shutdown	1000ms	1.1	2	593	Engine Idle Shutdown has Shutdown Engine
65252	Idle Shutdown	1000ms	4.1	2	1081	Engine Wait to Start Lamp
65252	Idle Shutdown	1000ms	5.1	2	1110	Engine Protection System has Shutdown Engine
65262	Engine Temperature	1000ms	7	8	52	Engine Intercooler Temperature
65262	Engine Temperature	1000ms	1	8	110	Engine Coolant Temperature
65262	Engine Temperature	1000ms	2	8	174	Fuel Temperature
65262	Engine Temperature	1000ms	3,4	16	175	Engine Oil Temperature
65263	Engine Fluid Pressure/Level	500ms	1	8	94	Engine Fuel Delivery Pressure
65263	Engine Fluid Pressure/Level	500ms	4	8	100	Engine Oil Pressure
65263	Engine Fluid Pressure/Level	500ms	5,6	16	101	Crankcase Pressure
65263	Engine Fluid Pressure/Level	500ms	7	8	109	Coolant Pressure
65265	Cruise Control / Vehicle Speed	100ms	1.3	2	70	Park Brake Switch
65265	Cruise Control / Vehicle Speed	100ms	2,3	16	84	Wheel Based Speed
65265	Cruise Control / Vehicle Speed	100ms	4.5	2	597	Brake Switch
65266	Fuel Economy	100ms	1,2	16	183	Fuel Rate
65269	Ambient Conditions	1000ms	4,5	16	171	Ambient Air Temperature
65269	Ambient Conditions	1000ms	6	8	172	Air Inlet Temperature
65270	Inlet/Exhaust Conditions	500ms	2	8	102	Boost Pressure
65270	Inlet/Exhaust Conditions	500ms	6,7	16	173	Exhaust Gas Temperature
65271	Vehicle Electrical Power	1000ms	5,6	16	168	Battery Potential

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