neoECU 22

Fast and Flexible Gateways and ECU Simulations

The neoECU 22 is a rapid prototyping tool for CAN, CAN FD, LIN, and Ethernet. The neoECU 22 can be scripted to gateway, control and measure automotive network traffic, and PDUs in minutes. Logic can be defined in Vehicle Spy's Function Block scripts, or embedded C code, allowing you to keep your project moving.

Applications

- Create gateways in minutes with Vehicle Spy's Enterprise's Gateway Builder Feature. Gateway between CAN FD, CAN, LIN, and Ethernet
- Integrate into benches to replace or in advance of receiving a prototype ECU
- Simulate a real ECU environment with dozens of low cost nodes
- Try out new algorithms early in design

Features

- 8x DW CAN / CAN FD channels
- 4x software enabled CAN terminations
- 2x LIN channels
- 1x DoIP Activation line
- 1x Gigabit Ethernet (1000BASE-T) for use with DoIP, XCPoE and more
- Intrepid Security Module provides hardware cybersecurity support and embedded C Code capability
- 10x Programmable tri-color LEDs
- 2x full-size SD cards for scripting and playback
- Membrane LEDs to show link, error, and activity status
- Vehicle battery level wakeup

neoECU 22

Standalone Scripting, and Simulation

The neoECU 22 operates in standalone mode. Scripts automatically begin to run on power-up. It can run real-time scripts using Function Blocks, Embedded C or a combination; and simulate ECUs and gateways. A robust power management system automatically powers down the neoECU 22 and it wakes up again based on network activity or the connection of a PC.

The Power of Scripting – CoreMini

If you need to support a proprietary protocol, or any other customized action, the system offers a scripting environment for you to expand the base functionality to fit your unique needs. This makes the entire system very flexible and adaptable.

Networks / Inputs

- 8x Dual wire CAN / CAN FD (all baud rates supported)
- 2x LIN / K Line / KW2K / ISO 9141
- 2x Gigabit Ethernet (100BASE-TX/1000BASE-T) appropriate for tasks such as DoIP or XCP

Device Specifications

- Voltage input: 4.5-40V
- Temperature range: -40°C to +85°C
- Dimensions: 13.60cm x 11.22cm x 3.97cm
- LEDs (user programmable): 10 programmable tri-color LEDs
- PC Interface via 1000BASE-T port (NIC)

Networks / Inputs

- J1979 (OBD)
- J1939 (Includes J1939 DBC, BAM, RTS/CTS)
- UDS (ISO14229) -- Services include $19, $22, $23, $2A, $2C
- DBC, A2L (ASAP2 File), GDX, MDX, ODX support
- XCP/CCP: Includes A2L (ASAP2 file) and ROB support

HD26 Pinout

1	MISC 1	14	DW CAN 1 H
2	DW CAN 4 L	15	DW CAN 8 H
3	DW CAN 5 L	16	DW CAN 2 H
4	DW CAN 1 L	17	DW CAN 3 H
5	DW CAN 8 L	18	DW CAN 6 H
6	DW CAN 2 L	19	VBAT
7	DW CAN 3 L	20	MISC 4
8	DW CAN 6 L	21	DW CAN 7 L
9	MISC 2	22	LIN 01 / ISO K 01
10	GND	23	LIN 02
11	MISC 3	24	EXT WAKE
12	DW CAN 4 H	25	ETH 01 ACTIVATE
13	DW CAN 5 H	26	DW CAN 7 H

Ordering Information

Part Number	Description
neoECU-22	neoECU-22 Rapid Gateway and Simulator Tool

Specifications subject to change; please contact Intrepid for the latest information. All trademarks are the property of their respective owners.