# neoECU 10

Low-Cost Embedded ECU

Need a scriptable, low-cost node for CAN, LIN and K-Line? The neoECU 10 provides 2x CAN channels, LIN, analog in and PWM out. It runs the Vehicle Spy CoreMini engine for easy setup.

## **Applications:**

- · Gateway nodes
- Simulators
- Automated testers
- ECU replacement

### Features:

- 40 MIPS DSP
- 6.0-26.5V operation (expandable in specific configurations)
- 4x 0-26V analog inputs (800k input impedance)
- 6x PWM outputs (0-VBATT 50 mA low-side drivers)
- 4 internal buttons
- 5 LEDs
- CAN channels configurable for SW CAN, LSFT CAN, and DW CAN
- One LIN/K-Line channels; one L-Line possible with external driver
- Power management: 5 mA sleep mode (200 µA hibernate mode in specific configurations)

The neoECU 10 requires one Vehicle Spy full license and a neoVI or ValueCAN to program it via CAN. Contact ICS for more details and for specific configurations.

#### **Ordering Information**

Part Number	Description			
NEOECU-10-HHL	neoECU 10 device with 2 DW CAN channels			
NEOECU- 10-HLSL	neoECU 10 device with 1 DW CAN and 1 LSFT/SW CAN channel			

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



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		Y	Y	Y				Y			
st0 F	unction	Block 1	Script	Stopped			Function Block has not st	arted			
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Script	Start	1		Fund	tion Bl	ock 1					
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	Step	Description	Vak				Comment				
_	step 1	Start a loop	1	ic .							
							// Start Infinite Loop				
	2	2 📇 Transmit		Diagnostic Request 1			// Transmit Diagnostic Request 1				
	3			{Diagnostic Signal Value (Value) :in0-sig0-0}>0			// If Diagnostic Signal Value	ue is Greater Than 0			
	4	Wait For		0.100 sec			// Wait for 100 ms			<	
	5	E Transmit		Diagnostic Request 2			// Transmit Diagnostic Request 2				
	6	End If					// End IF				
	7	End the last loop					// End LOOP				
	8	// End Function Block Example	1								
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Vehicle Spy's graphical scripting environment makes rapid prototyping your ECU as simple as point and click.

#### **25-Pin Connector Pinout**

Pin	Description	Pin	Description
1	SW CAN	14	HS CAN 1 H
2	J1850 VPW	15	HS CAN 1 L
3	LSFT CAN H	16	HS CAN 2 H
4	LSFT CAN L	17	HS CAN 2 L
5	MSCAN H	18	MISC DIO 4
6	MSCAN L	19	HS CAN 3 H
7	ISO L	20	HS CAN 3 L
8	ISO K / LIN 1	21	TSYNC CLK H
9	DBG CLK	22	TSYNC CLK L
10	MISC DIO 1	23	MISC DIO 3
11	MISC DIO 2	24	DBG RESET
12	DBG DATA	25	VBATT
13	GND		

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