ECU Service Pro

Automotive ECU Simulation & Analysis Platform • Automotive & Fieldbus Tools

A hardware-in-the-loop (HIL) simulation and vehicle bus analysis platform engineered for automotive workshops, Tier-1 electronic suppliers, and electric vehicle (EV) testing in Indian environmental conditions.

KEY ARCHITECTURAL FEATURES

- **Dual-channel isolated** CAN-FD transceiver with software-selectable bus termination (60/120 Ohm)
- **Automotive 100BASE-T1** single-pair Ethernet analyzer port with packet capture
- **Real-time DBC** file parsing and frame injection with microsecond timestamp accuracy
- **Integrated OBD-II** diagnostic protocol stack supporting ISO 14229 UDS

VERIFIED TECHNICAL SPECIFICATIONS

Part Number / Order Code	ECU Service Pro
Input Electrical Ratings	9V — 36V DC Wide Input, 15W Operational Draw
Supported Field Protocols	CAN-FD (ISO 11898-2), LIN 2.2, 100BASE-T1 Automotive Ethernet, OBD-II
Mounting & Dimensions	Ruggedized Benchtop / Service Chassis (210 x 140 x 45 mm)
Enclosure Rating & Material	Extruded Aluminum Enclosure with Rubber Shock Bumpers (IP54)
Ambient Operating Range	-20°C to +70°C Automotive Field Range
Certification Standards	ISO 11898-2, ISO 17987, SAE J1939, ISO 14229 UDS

TERMINAL BLOCK PINOUT & WIRING ASSIGNMENTS

Terminal / Pin	Designation & Electrical Function
CAN1_H / CAN1_L	Isolated CAN-FD Channel 1 High/Low
CAN2_H / CAN2_L	Isolated CAN-FD Channel 2 High/Low
LIN1 / LIN2	LIN Bus 1 & 2 Transceiver Lines
TRX_P / TRX_N	100BASE-T1 Automotive Ethernet Differential Pair
KL30 / KL31	Vehicle Battery Power (+12V/24V) and Chassis Ground

Regulatory Compliance Notice: Manufactured and tested strictly in accordance with ISO 9001:2015 quality standards at AISPL Engineering Facility, Mumbai, India. All technical specifications are subject to verification against local BIS / IEC installation guidelines.

✓ VERIFIED BY AISPL MUMBAI LAB
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