

Testing Solutions

Automotive Suitcase Tester

Take the Solution to the Problem

The Suitcase Tester is a portable solution for validating automotive electronic control units (ECUs), such as instrument clusters, seat modules, or body control modules. Packaged to take on the road, it executes automated tests through standard communication interfaces. Simultaneously, the tester stimulates vehicle modules that communicate with the ECU being tested, as well as signal inputs from sensors and actuator loads. Custom-designed for your ECU, it is housed a rugged TSA-approved carrying case with durable connectors and mating harness. MxSuite test automation software and test cases are installed on the automotive suitcase tester.

Features

- ✓ Portable, designed for traveling from desktop to factory environments to work-at-home
- ✓ Allows quick diagnosis of a ECU or vehicle as working or non-working
- ✓ 100% automated test cases to validate active/inactive line drivers and electronics
- ✓ Detailed reports pinpoint failures of ECU(s)
- ✓ Packages all test data onto USB drive (i.e., identifying serial number of failed module)

Potential Test Points

- Battery Monitor
- CAN/LIN/Ethernet
- Digital Inputs/Outputs
- Analog Inputs/Outputs
- High Side Drivers
- Low Side Drivers
- H-Bridge (Relay or Solid-state)
- Pulse Width Modulation
- Leakage Current
- Cybersecurity
- End-of-Line Driver Tests

Contact Us

Danlaw, Inc.

41131 Vincent Court
Novi, Michigan 48375 USA
Tel: 1 (248) 476-5571
Fax: 1 (248) 471-4485
sales@danlawinc.com

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Sample Configuration

- Rugged case housing test electronics
- Rugged computer with quick release mounts to case
- Clamping fixture with pogo-pins for ECU
- Power switch and display for voltage supplied and current consumed
- USB connector for offload test data
- Storage for power cords, USB flash devices, documents, and tools