

## ECU Device Validation with Mx-UDS™

Suppliers of electronic control units are often faced with the task of porting device drivers to new hardware configurations. One of the challenges is to ensure that the device drivers and electronics behave properly on the ECU prior to integration with the application code. The **Mx-UDS™** framework sets the standard for embedded device driver software testing. It allows you to use MicroMax's Mx-VDev™ validation tool to unit-test the devices on the target ECU.

The Mx-UDS™ source code framework uses your ECU's CAN driver to receive driver-specific commands from a remote node, dispatch them to user-designated functions, and return the results back to the remote testing node. By combining this software unit-test capability with external test hardware, full device driver and electronics testing can be performed.

Streamline your ECU validation efforts for powertrain, body electronics, chassis control, active/passive safety, or other mechatronics systems. Call us today more information on Mx-UDS™.

### Mx-UDS™ Advantages

**Full Mx-VDev™ Support :** You can use MicroMax's Mx-VDev™ Universal Test Software running on a PC to perform complete validation and verification on your device drivers in the embedded target ECU.

**Portable C Code:** Mx-UDS™ is written in portable C code and is compiled with your embedded application. It can even be co-resident with your production application code.

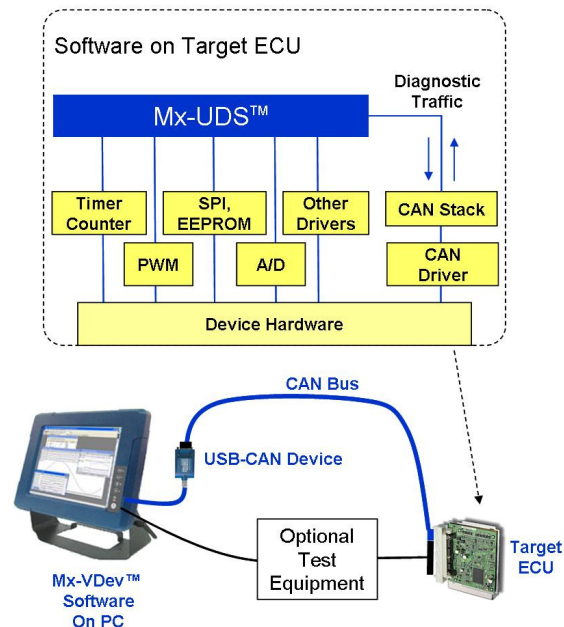
**Hardware Validation:** With third-party data acquisition equipment or test equipment, you can test your ECU's hardware device drivers for the proper responses to hardware stimuli and internal stimuli (from Mx-UDS™).

### Supported Configurations

**CAN Diagnostic Products:** Mx-UDS™ supports Vector® CAN drivers (with or without the diagnostic communications layer), MicroMax's Mx-CANstack™ Generator, or any third party commercial or custom CAN device driver for the target ECU.

### Architecture

**Flexible access points to CAN:** Mx-UDS™ utilizes your production CAN driver and CAN Diagnostic Event Manager, or MicroMax can show you how to connect Mx-UDS™ directly to your CAN driver.



Contact us at [info@mrmx.com](mailto:info@mrmx.com) for more information on Mx-VDev™ and Mx-UDS™.