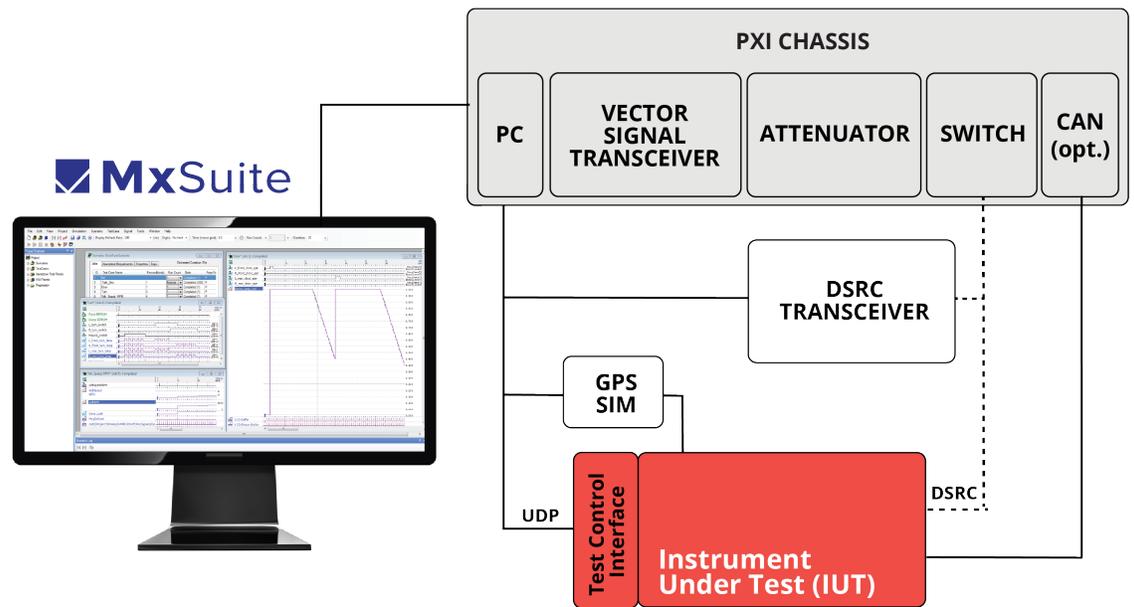


Mx-DSRC Conformance Test System

The Mx-DSRC™ Conformance Test System exercises devices with DSRC modules (ASDs, OBUs, RSUs, etc.) to validate their conformance to the Wireless Access in Vehicular Environments (WAVE) standards for V2X communications. The easy-to-use tool provides a powerful framework that automatically executes tests and generates the reports needed for USDOT Certification. It is designed to be used by:

- ✓ Test laboratories to certify devices
- ✓ Product companies to pre-certify their devices

The platform is expandable for support of other vehicle functions, such as CANbus communications.



Benefits

Drastically reduces test time with set-and-forget automation

Easy-to-understand configuration for execution of tests

Features

Perform in-house pre-certification testing

Automatic test execution and reporting

Includes the USDOT Certification tests

Validated as Qualified Test Equipment (QTE) by OmniAir

This document is provided for information purposes only and the contents hereof are subject to change without notice.

Certification Tests Covered

DSRC Communications

- Physical (IEEE 802.11)
- Link (IEEE 1609.4)
- Transport (IEEE 1609.3 WSM & WSA)
- Security (IEEE 1609.2)

DSRC Messaging

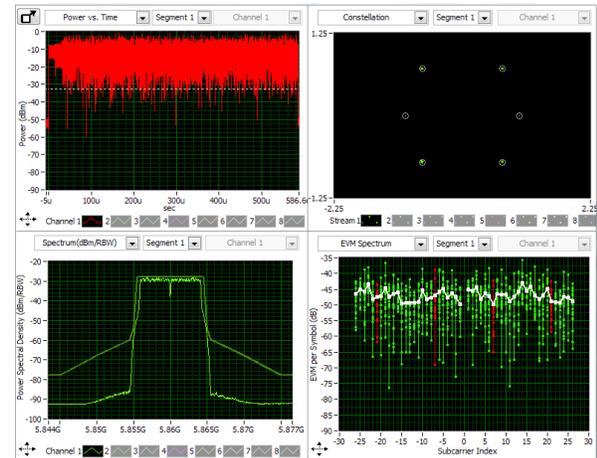
- SAE J2945/1 Requirements for BSM
- Encoding (ISO ASN.1 UPER & COER)
- Process Information (SAE J2735)

Mx-DSRC Conformance Test System

RF Quality Training

Comprehensive RF Quality measurements to ensure interoperability:

- Data Rate
- Adjacent /Non-adjacent Channel Rejection
- Transmit Spectral Mask
- Center Frequency Tolerance
- Symbol Clock Frequency Tolerance
- Constellation Error
- Spectral Flatness
- Transmit Center Frequency Leakage
- Transmit Power
- Receiver Input Sensitivity



Versions

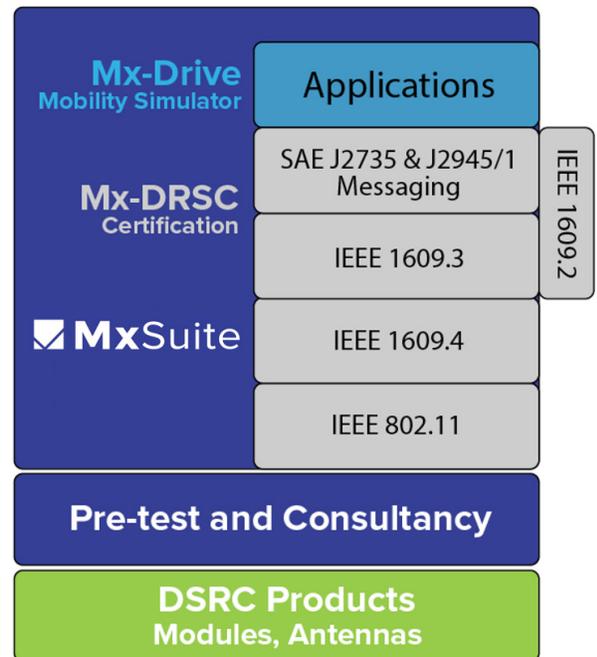
Mx-DSRC - Full Version

Comprehensive tester that executes the full protocol and physical layers. Included tests:

- IEEE 802.11p DSRC
- IEEE 1609.2 Security Services for Applications and Management Messages
- IEEE 1609.3 Network Services
- IEEE 1609.4 Multi-channel Operations
- SAE J2945/1 On-Board Systems for V2V Safety Communications, bench tests only

Mx-DSRC - Protocol Only

The lighter version that tests messaging and security. (IEEE 802.11 not included.)



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Mx-DSRC Conformance Test System underwent rigorous testing and is listed as a Qualified Test Equipment (QTE) for OmniAir Consortium's Connected Vehicle Certification Program.



Related Products

MxSuite Embedded Software Test Automation is the most comprehensive automated platform for embedded software verification and validation.

Mx-Drive Multi-Vehicle Simulator provides an environment to generate and run real-world conditions to test smart/connected vehicle applications.