



We deploy software products and engineering services in the most demanding production and laboratory environments.

Application Spotlight: STAX for Component Testing with CAN Controls

Motivation:

Automotive components are becoming more complex, with integrated and active control units as a standard part of the subsystem. Production testers must be able to configure and control these parts in addition to testing their functionality and performance. Disparate hardware and software solutions provide disjointed, unsynchronized, and hard-to-use systems. Signal.X Technologies addresses these challenges with a comprehensive hardware and software solution built for the plant floor.





Solution Benefits:

- Deploy a single, integrated solution for control and acquisition of the part and analog data
- Leverage globally available National Instruments hardware for production test machines
- Synchronize analog and controller high-speed data for processing pass/fail status
- Integrate with Signal.X tools for data analysis, archival, and calibration
- Enable extensive tracing and event logging for diagnosis of faults in production

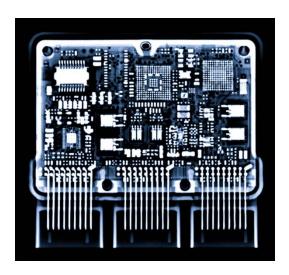
To learn more about this and other Signal.X projects, please visit signalxtech.com/about/portfolio/

info@signalxtech.com www.signalxtech.com

Technology Highlights:

XCP Communications

In addition to high-speed DAQ list streaming, STAX can be used to read and write calibration parameters on demand to verify part integrity and configuration. All parameters can be checked and logged as part of the test sequence.



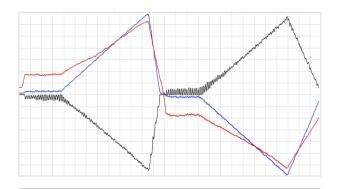
Integration with Analog Data

STAX systems bring together high-speed analog data with all of the networked data sources (CAN, LIN, Ethernet) for a single synchronized data file that can be processed to pass/fail using our Shield platform. Close the loop around the data using Trove, and extract more value from the data collected in production.

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Diagnostic Interfaces

STAX threads can be customized to adapt to vehicle cyber security standards, including extended seed/key programming sessions, flashing the ECU, and reporting trouble and fault codes as part of the test sequence. STAX leverages Unified Diagnostic Services over CAN and other diagnostic interfaces.



Easily combine data from multiple sources for analysis.

This application showcases our ability to realize a vision to fit one customer's circumstance. Let us help you realize yours.

About Signal.X:

Since 2004, Signal.X has specialized in Test & Measurement Products for noise & vibration (NVH), production and laboratory test automation, functional test design, large data management, and custom application development.

info@signalxtech.com www.signalxtech.com