The Automotive Test System (ATS) is a comprehensive test tool enabling high-quality testing and simulation of CAN, LIN and MOST® automotive infotainment devices. Since ATS is compatible with the state-of-the-art development tool, Microsoft Visual Studio®, the time and effort required for device testing can also be reduced. ATS integrates the debugging capabilities and productivity enhancements of Visual Studio on automotive bus systems and applications. ATS includes easy-to-use software and powerful testing hardware.

### Product Benefits

- Simple creation of test cases
- Straightforward simulation and verification of error conditions and the expected behavior of the Device Under Test (DUT)
- Reduces development efforts for device simulation and testing
- Flexible implementation for many test, verification, and system integration use cases
- Enables access to multiple automotive networks
- Available in three different editions: Full, Runtime, and Entry

ATS is a K2L product solution that comprises all phases of a typical V-Model development process. However, its strong focus on test and simulation makes it a significant development tool.
ATS Features

The primary application for ATS includes all activities related to test and simulation, such as restbus simulation, device simulation, testing during system development, rapid prototyping and more. In addition, ATS offers comprehensive feature sets covering all requirements in the area of analysis and verification.

ATS Basic Workflow

ATS is a consistent workflow that simplifies test and simulation engineering, and optimizes the time and effort required. Through the comprehensive code generator, MAG.ATS, a crucial component of ATS, any protocol description of a CAN, LIN, or MOST system can be easily transferred into ready-to-use stub code for any kind of test and simulation.

ATS Deployment

ATS consists of various components. The all-in-one hardware interface, OptoLyzer® MOCCA compact, establishes connections to all popular automotive networks, such as CAN, LIN, FlexRay™ and MOST. The ATS software interface comes with the MAG.ATS code generator. The generated code, plus the powerful ATS Framework, offer plenty of .NET programming interfaces in order to efficiently develop test and simulation applications. The ATS Service is the driver component for the OptoLyzer MOCCA compact hardware interface, which can also simulate the MOST network with the Virtual MOST feature. In addition, the internal and external traffic of the supported networks can be traced by the K2L Viewer.

Areas of Application

To provide a concept that assures a tailored approach for all applications, ATS is available in three modular upgrade options:

- **Full Edition**: integrates the complete feature set including the K2L Viewer, Code Generator and the possibility to add own test code.
- **Runtime Edition**: provides a Viewer functionality to run test scripts and simulations.
- **Entry Edition**: hardware only solution that allows users to connect own software with the test device.

K2L is committed to working toward a sustainable environment. We endeavor to make continual improvements in natural resource conservation through efficient product design and global operations thereby reducing greenhouse gas emissions generated by our products and facilities. Our environmental life cycle process seeks to reduce our carbon footprint through product life and recyclability and efficient use of materials, energy and transportation. We remain committed to promoting smart energy policies across our global organization.