

Siemens Simcenter Test Solutions for Real-World Testing, Validation, and Optimization

ATA Engineering is a value-added reseller (VAR) of Siemens test software and hardware

Experience superior test hardware and software with ATA Engineering

ATA engineers deliver unmatched support by applying Siemens test solutions to real-world, multidisciplinary engineering challenges. With cutting-edge hardware and robust software seamlessly integrated, our solutions simplify and accelerate the product development process. Discover how our expertise, products, and services can transform your testing capabilities.



Are you a current customer seeking support?

Access our expert technical support hotline:

<https://www.ata-e.com/software/training-support/technical-support-hotline/>

Our Siemens Software Products Designed for Precision

Simcenter SCADAS Hardware

Key Features

Simplicity: Combines noise, vibration, and harshness (NVH), acoustics, and durability testing in a single unit, with flexibility to insert and swap modules between mobile and lab chassis.

Flexibility and Integration: Supports a variety of analog and digital transducers for acoustic, vibration, and durability engineering. Seamlessly integrates with Simcenter Testlab for accelerated test setup and accurate results.

Scalability: Accommodates configurations ranging from portable units to high-channel-count laboratory systems, so that solutions can be tailored to specific testing needs.

High-Performance Data Acquisition: Ensures precise measurements with high data throughput for both low and high sample rates, maintaining data integrity across various testing scenarios.



Applications

High-performance data acquisition for acoustics, vibration, and durability engineering.

Portable handheld units to high-channel-count laboratory systems.

Simcenter Testlab Software

Key Features

Integrated Data Acquisition and Analytics: Combines high-speed data collection with comprehensive testing and analytical tools, enhancing productivity and ensuring data consistency.

Workflow-Based Interface: Guides users through test campaigns with optimal settings for measurement and analysis, streamlining the testing process and improving efficiency.

Seamless Integration with Simulation: Facilitates the integration of test data into simulation processes, supporting virtual model updates and enabling efficient, realistic simulations. Staying within the Simcenter Software suite allows full integration between Simcenter Testlab, Simcenter 3D, NX, and others.

Flexible Token Licensing: Allows users to access a variety of Testlab functionality based on project needs with a cost-effective solution.



Applications

Durability testing, modal analysis, acoustics, and closed-loop vibration control.

Fast, efficient, and reliable test-based engineering.

Simcenter Qsources Hardware

Key Features

Comprehensive Hardware Suite: Provides a wide range of innovative sound and vibration excitation tools, including compact electrodynamic shakers and volume velocity monopole sources, to cover the entire spectrum of transfer function measurements.

Enhanced Measurement Repeatability: Features specially designed shakers that facilitate access to hard-to-reach locations, ensure correct shaker angle and position accuracy, and improve signal-to-noise ratio, resulting in high-quality and accurate frequency response functions.

Seamless Integration: Integrates effortlessly with Simcenter SCADAS data acquisition hardware and Simcenter Testlab software, providing a unified solution that enhances productivity and data accuracy.



Applications

Precise vibration and acoustic testing used to optimize product designs for quieter and more durable vibration-resistant performance.

Simcenter Sound Camera

Key Features

Compatibility and Stand-Alone Operation: Features built-in signal processing, eliminating the need for external data acquisition hardware. Requiring only a single Ethernet cable connection, the Simcenter Sound Camera enables quick setup and effortless operation.

Scalable and Configurable Design: Designed for flexibility, the Sound Camera features a modular microphone array that can be adjusted in size to optimize frequency range and resolution. Users can expand the system from 45 to 117 microphones with optional arm extensions, enhancing its adaptability for various testing scenarios.

High-Performance Acoustic Visualization: Delivers real-time noise source localization with an integrated video camera and infrared distance sensor. Live acoustic mapping is synchronized with video, providing clear and intuitive visualizations for easy interpretation.



Applications

Designed for precise noise source localization by simply pointing the device at an object.

Uses advanced software overlays of real-time acoustic data onto images or video, providing clear and intuitive visual results for efficient troubleshooting and analysis.

Rentals, demos, and on-site support

At ATA Engineering, we go beyond providing exceptional hardware and software to ensure that our solutions work seamlessly in your environment.

- **Demos:** Try cutting-edge testing tools before committing, ensuring that you invest only in the solutions that meet your needs while experiencing product performance and capabilities firsthand.
- **Short-Term Rentals:** When a project requires a few extra measurement channels, ATA offers cost-effective solutions to seamlessly supplement your existing system through hardware rentals.
- **On-Site Support:** ATA experts are available to assist with system setup, integration, and troubleshooting. We ensure that you get the most out of your investment.

Seamless integration of services and software

ATA's test services complement and enhance the software we provide. As the leading independent modal testing company in the U.S., our results are trusted by experts at the DoD, NASA, and others across the industries we serve. From experimental modal analysis to custom measurement setups, our engineers collaborate with you to ensure that your testing needs are met. Our service expertise ensures that Simcenter software and hardware perform to their full potential, offering unparalleled value for your testing projects.

For more information about our services, visit <https://www.ata-e.com/services/test/>

Tap into Siemens Digital Industries Test resources

<https://community.sw.siemens.com/s/article/Index-of-Testing-Knowledge-Articles>

