

Innovative Semiconductor Test Solutions

Designed for You

Your Partner in Semi

When one-size-fits-all test equipment doesn't meet your needs and your engineering team is out of bandwidth, talk to us. We'll solve your toughest semiconductor test challenges with innovative, elegant test solutions.

Our team works in concert with yours to create new test solutions aimed not only to fit your specs, but also to achieve your business goals of reducing testing costs, improving yields, and streamlining your testing process.

For over 20 years, our test equipment has tested billions of devices for the world's largest semiconductor companies. Now, put that expertise to work for you.



A Breath of Capability

Astronics Test Systems offers turnkey design and manufacturing services to create semiconductor test equipment that excel at meeting your production needs, your test cost requirements, and your ramp cycles. An integrated-team of semiconductor test innovators delivers a complete system tailored to achieve your specific objectives, incorporating:

- Test strategy
- Hardware design
- Software development and integration
- Manufacturing
- Installation
- Program management
- Ongoing support

Our team is vertically integrated, offering electrical design, mechanical design, software design, machine shop, and test engineering all under one roof.

WHY WORK WITH US?

- Save time and cost - free up your internal resources
- Get to market fast - rapid test system development and deployment
- Solve next-gen problems - innovative solutions for your newest test challenges
- Increase efficiency - solutions to maximize your operational efficiency
- Customize your solution - we'll design you something to fit your exact needs
- Consolidate for a complete solution - from conception through installation and support



Extensive Semiconductor Industry Experience. Whether you need a design verification system or a production-level tester, we are your experienced partner delivering your systems with strict confidentiality.

We'll work with you to design a system that tests whatever you need for semiconductors, including:

- Devices: application processors, CPUs, baseband processors, memory, board-level modules, end-user whole devices
- Technology: mixed-signal, RF, memory, burn-in, high speed interfaces, others
- Packages: single device, SiP, and more
- Applications: consumer electronics, mobile devices, automotive, IoT, medical, and other industries

A Deep Technology Portfolio.

Draw from our extensive technology and engineering expertise for sophisticated, well-engineered solutions that solve complex test challenges. Solutions can range from the simple to the complex, with capabilities to integrate all the resources you need for your system: sophisticated handlers, tester resources, test fixtures, sockets, and software.

Get Started Today

For additional details, please contact Astronics Test Systems.

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Engineer-to-Engineer Collaboration.

We work from an "engineer to engineer" philosophy, where our engineering team serves as an extension of yours. We collaborate closely throughout the design process, during system install, and then continue on with support and upgrades.

Your goals are our goals, and this tight collaboration ensures you receive a solution that meets your target of test function, throughput volume, and any other important parameter.

Global Installation and Support.

Astronics teams install your system, train your personnel, and provide maintenance at your designated factory.

CAPABILITY	DESCRIPTION
HARDWARE	
Thermal	<ul style="list-style-type: none"> • Automatic thermal control, per-site • Multiples of thermal solutions, multiphase refrigerant and heating for thermal stress test including burn-in • Efficient system thermal management
Interfacing	<ul style="list-style-type: none"> • Custom interfacing to the DUT (cabling & connections) • DUT communication interfacing
Power Management	<ul style="list-style-type: none"> • Wide range of power supplies to power DUTs • Powering up & monitoring voltage & current • Per board or per site • DUT protection
Automated Handling	<ul style="list-style-type: none"> • System automation for testing hundreds of devices, simultaneously • DUT pick and place handling systems
Advanced Technologies	<ul style="list-style-type: none"> • Deep robotics experience • Optical systems for inspection, alignment, and quality – perfect for narrow pitch devices
Instrumentation	<ul style="list-style-type: none"> • Analog instrumentation suites • Digital instrumentation suites • RF testing
Miscellaneous	<ul style="list-style-type: none"> • Standard and custom enclosures • Custom PCB development • Remote equipment monitoring
SOFTWARE	
Programming	<ul style="list-style-type: none"> • Test program development • Assembly code & firmware through database management • Programming of semiconductor devices: firmware downloads, flash programming
Operation	<ul style="list-style-type: none"> • Multi-threaded test scheduling • Multi-threaded test execution • Pass/fail logging and binning