

# Teradyne TestStation™ Systems

High Quality In-Circuit Testing

## Teradyne – A Company you can Count On

With 30+ years of ICT experience and over 6,000+ systems installed, Teradyne's TestStation™ is the preferred solution for discerning manufacturers who value test quality. TestStation has been recognized with numerous awards for its diagnostic and test capabilities and it is the tester of choice at many of the world's largest OEM and high volume contract manufacturers.

Teradyne continues to build upon our tradition and dedication to ATE leadership, by continuously improving our world-class products and support services to meet the ever evolving needs of our customers who rely on a mature, experienced ATE company like Teradyne to help them achieve their production goals.



Teradyne's Corporate Headquarters, located in North Reading, MA

## TestStation– Built for the Road Ahead

Teradyne's flagship in-circuit product family, the TestStation, is built for the road ahead so you can be confident that tomorrow's PCB assembly technologies don't outpace your tester's test capabilities.

Unlike other ICT equipment manufacturers, Teradyne's TestStation systems are designed with state-of-the-art in-circuit technologies that can be configured to accommodate a variety of test applications to satisfy both your current and future test requirements.

## Single Platform Scalability and Compatibility – For Maximum Manufacturing Flexibility

TestStation is a scalable test platform that can be configured to match your specific test needs with configurable size, pin capability, and test features. Systems range from 256 to an industry leading 7,680 pins. Manufacturers can customize TestStation for each application, so manufacturers can purchase what they need today and easily add additional capabilities later. TestStation supports multiplexed or pure pin configurations; analog only, full digital, or a mixture

of both; and a variety of vectorless test, boundary scan, and functional test options. No single other ICT system is as adaptable to the industry's range of test and throughput requirements.

### Because Testing Matters

- Scalable performance and test capabilities
- Proven system reliability
- Exceptional diagnostic accuracy
- Best price/performance value
- 30+ years of ICT innovation
- Industry's highest fault coverage, pin count, and throughput
- Superior Analog and Digital instrumentation
- Award winning SafeTest™ protection technologies
- Custom Functional and Cluster test capabilities
- Compatible with legacy ICT systems
- Configurable to match factory automation requirements

## A Heritage of Technical Innovation

Precision engineering and technical innovation are at the heart of Teradyne's heritage. Many of our test innovations have helped shape today's industry standards. TestStation features best-in-class digital, vectorless, boundary scan, and analog test capabilities. The UltraPin II Driver/Sensor with SafeTest protection technologies is the industry's most accurate pin designed with advanced features to safely and reliably test PCBs with ultra-low voltage technologies. Third generation Framescan FX vectorless test technologies are designed to maintain test coverage in the face of shrinking package geometries and growing pin densities.

TestStation's unpowered test capabilities include shorts, vectorless opens, and analog value testing. Powered-up test capabilities include digital device vector testing, reduced access boundary scan testing, high speed FLASH and ISP device programming, frequency and time event measurements, synchronized mixed signal device testing, and functional cluster testing. These tests can be automatically generated using Teradyne's automatic test generation software or manually created using a simple, but powerful test programming language.



## TestStation Product Family Overview

Below is a brief description of the test system models that comprise the TestStation product family. All of the members of the product family can be configured with the same powerful test features that make TestStation the industry's most capable in-circuit test solution.



### TestStation



The TestStation is the flag-ship in-circuit test system that is feature scalable and configurable from 256 to 3,840 test pins. It is capable of testing complex, heavily integrated PCBs and features award winning SafeTest technology.

### TestStation LH



The TestStation LH is the entry level system to the TestStation product family. It is an economical, small footprint, feature scalable system that can be used in both low and high pin count applications up to 4,096 test pins.

### TestStation LX



The TestStation LX is Teradyne's highest capacity in-circuit test solution. It can be configured with up to 7,680 pins and comes equipped with built-in features for testing large, complex, and heavily integrated PCBs. The TestStation LX system allows direct transfer of legacy GR228X and TestStation test programs and fixtures, preserving your test investments and providing maximum manufacturing test flexibility.

### TestStation Duo



The TestStation Duo is a unique concurrent in-circuit test system that effectively doubles the test throughput of conventional in-circuit testers (without doubling capital equipment costs or increasing manufacturing floor space) by combining two complete and independent test modules inside a single tester frame.

### TestStation Rackmount



The TestStation TSR is a collection of specially designed hardware modules that can be easily integrated into standard or custom automated handling equipment. High volume manufacturers can use the modularity of the TSR hardware components to design their own high performance Teradyne in-circuit tester solution integrated inside a second-party automated handler solution of their choice.

Contact your Teradyne sales representative for more information or visit [www.teradyne.com/atd](http://www.teradyne.com/atd).

## Teradyne Worldwide Support



A dedicated, worldwide network of customer service and support professionals stands behind every Teradyne product. A full spectrum of services and software support programs also extend beyond the expiration of your original warranty. The Teradyne Support Network (TSN) is available as an organization of approved service providers for Teradyne customers.

- 24x7 Online eKnowledge System Availability
- 24x7 Phone Support
- On-Site Local Teradyne Engineer Support



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