

TestStation Duo™ Concurrent In-Circuit Test Systems

Provides Fastest ICT Test Throughput, Lowers High Volume Production Costs

Key Features:

- Twice the throughput of traditional in-circuit testers
- Lower capital equipment, fixture, and operation costs
- Requires less manufacturing floor space
- Single module operation for flexibility and compatibility
- High fault coverage
- Scalable performance and test capabilities
- Award winning SafeTest™ Protection Technologies



The TestStation Duo is a true concurrent test system with independent test modules.

The TestStation Duo is a unique concurrent in-circuit test system that is part of Teradyne's industry leading TestStation product family. It 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.

Fastest Test Throughput

The TestStation Duo system has two PC controllers, one to control the main module and one to control the secondary test module. Each computer controls independent tester instrumentation installed in each test module; which includes Teradyne's In-Circuit Analog (ICA) instrumentation, Integrated System Controller board, and up to twelve pin cards. Each module tests an individual board (or two boards on a multi-board panel) at the same time - allowing manufacturers to test two boards in the same amount of time it takes to test one. A special TS Production Pro user interface for the Duo makes it easy for test operators to view and control the test results for each test module.

The TestStation Duo provides true concurrent testing, utilizing dedicated resources for each test module. Alternative concurrent test approaches have limitations that prevent all test techniques from running in parallel, placing limitations on test throughput and flexibility.

Lowest Manufacturing Costs

High volume manufacturers who choose the Duo can dramatically lower their manufacturing costs. Economic benefits are achieved through faster test throughput, lower capital equipment costs (buying a TS Duo system costs less than buying two single systems), lower fixture costs (only one fixture is needed instead of two), reduced number of test operators, and reduced manufacturing floor space.

Scalable Test Capabilities and Flexible Configurations

The TestStation Duo hardware and software features are scalable so manufacturers can purchase what they need today and easily add additional capabilities later. It supports multiplexed or pure pin configurations; analog only, full digital, or mixed pin board types; and a variety of vectorless test, boundary scan, and functional test options.

In addition to concurrent test operation, the TestStation Duo can be operated in single module mode. This flexibility is designed to preserve the investments many manufacturers have made in TestStation in-circuit testers by allowing the direct transfer of existing test programs and small test fixtures without incurring extra costs or program development activities.

Comprehensive Fault Detection

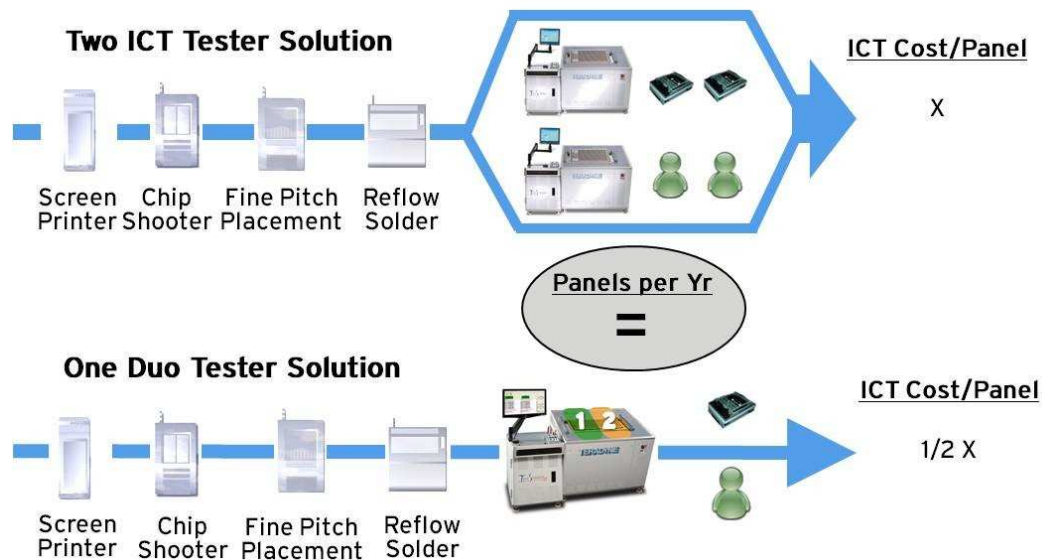
All of the powerful test features that make TestStation the industry's most capable in-circuit test solution are available on the TS Duo, including SafeTest protection technologies, UltraPin II driver/sensors, and Framescan FX vectorless test techniques.

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 test-

ing, 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.

The TestStation Duo concurrent in-circuit test system is supported worldwide by Teradyne's global support and service locations and by qualified fixture and programming services companies who are part of Teradyne's Support Network (TSN).

Contact your Teradyne Sales Representative for more information on Teradyne's Duo system or visit www.teradyne.com/atd.



General System Features

- PC based programming and test using Windows® operating systems
- Choice of multiplexed or non-multiplexed pin board options
 - TS DUO 121 (All real pins - max pincount 1536 pins per module)
 - TS DUO 124 (one-to-four multiplexing ratio - max pincount 1536 pins per module)
 - TS DUO Analog Only (supports 1536 analog pins per module)
 - System can be configured with a mixture of 121 and Analog Only pin boards
- High Performance analog instrumentation and 8 channel measurement matrix
- High-Performance Digital Vector Testing
- Comprehensive and Fast Automatic Test Generation Software
- Automated Test Quality Measurement and Debug Software
- Compact footprint (66 x 33.25 x 44.5 in inches)
- Compatible with 228X and TestStation fixtures that use less than 1536 pins



Contact your Teradyne sales representative for more information or visit www.teradyne.com/atd.

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STG-TSDUO-2011-02