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### UltraPin II Pin Board Update

Teradyne has recently completed updating the pin board technology that is used by the TestStation in-circuit tester platform. The UltraPin II pin board family, with new Driver/Sensor pin electronics, is specifically designed to meet the test requirements of ultra-low voltage technologies.

UltraPin II with its 15 millivolt accuracy and 2.3 millivolt programming resolution is 6 times more accurate than its closest competitive ICT pins. The UltraPin II also has unique real-time backdrive current measurement and control features that make it possible to identify unsafe testing conditions and board defects that other ICT testers cannot.

All UltraPin II pin boards support per pin programmable logic levels, dual logic thresholds, bi-directional pin drivers, programmable slew rates, and multiple timing sets - making it the most capable in-circuit pin available in the marketplace.

TestStation owners can configure their systems with a variety of different pin board options (analog or digital, multiplexed or non-multiplexed, and standard or high density) to match their particular pin count, technology, and budget requirements.

TestStation systems configured with UltraPin II pin boards are compatible with Teradyne's previous generation UltraPin I and Combo pin board technologies, so you can easily move test fixtures and programs from older 228X and TestStation systems to new UltraPin II testers.

### TestStation 6.3.0 Software Release

TestStation version 6.3.0 software is now shipping on new Teradyne TestStation testers and is available for all UltraPin based testers in the field that are covered by a Software Support Agreement. The key new features available in 6.3.0 include:

- Support for new UltraPin II family of pin boards
- Support for Teradyne's recently introduced TestStation Duo concurrent test system
- Support for Teradyne's latest vectorless test solution; **Framescan FX 2.0**
- New powerful, but easy-to-use operator user interfaces
- Enhancements to In-System Programming (ISP Tool) software
- Miscellaneous bug fixes and enhancements

TestStation systems running the previous version 6.2.0 software can be upgraded to the new 6.3.0 software by downloading a patch from Teradyne's eKnowledge support site. If you are running a version of Software prior to 6.2.0, then you should contact Teradyne Customer Support to have a copy of the 6.3.0 software distribution mailed to your site.

Please note that the highest version of Teradyne software that is supported on non-UltraPin based test systems is version 5.8.0.

## **Framescan FX 2.0 FAQ**

Framescan FX 2.0 is Teradyne's 3<sup>rd</sup> generation vectorless test solution that was developed in response to the smaller device packages and connector technologies that are being used on new board designs.

Framescan FX 2.0 has advanced measurement hardware and improved software algorithms that dramatically improve its ability to measure opens reliably on today's small geometry packages and complex connectors. The hardware improvements include a new low noise amplifier, a new multiplexer/selector board designed with low noise circuit devices and a circuit topology that rejects common mode noise.

The software improvements include an automatic precision mode and a new threshold setting algorithm that is optimized for increased fault coverage and eliminating false positive and false failure diagnostic results.

Teradyne has published a Frequently Asked Questions document that answers common questions about Teradyne's latest vectorless test solution and how it compares with previous vectorless test solutions. You can find the FAQ at:

<http://www.teradyne.com/atd/resource/product/teststation.html>

## **Enhanced Production Pro UI for TestStation Duo**

TestStation software version 6.3.0 has an enhanced production Pro user interface to support Teradyne's TestStation Duo concurrent test system. The user interface allows operators to easily view the results for both test modules and can display displays combined yield and throughput charts.

For more information on the TestStation Duo's high volume test capabilities refer to the TestStation Duo webinar in Teradyne's resource center.

<http://www.teradyne.com/atd/resource/product/teststation.html>

## **New Boundary Scan Solutions from Goepel and JTAG Technologies**

Teradyne's policy is to provide maximum test flexibility for owners of our in-circuit test systems by collaborating with manufacturers of popular high quality boundary scan products. These solutions can be used to extend the built-in boundary scan test capabilities of our testers as well as reduce overall development efforts (by allowing ICT developers to re-use boundary scan test vectors that have already been developed in the engineering and board prototype phases).

New production integration packages have recently been announced by Goepel, Inc and JTAG Technologies for the Teradyne TestStation and Spectrum test systems. These production integration packages allow manufacturers to easily run Goepel or JTAG boundary scan tests on the Teradyne testers.

For more information please refer to the following links:

[http://www.jtag.com/en/Products/Production\\_tools](http://www.jtag.com/en/Products/Production_tools)  
[sales@goepel.com](mailto:sales@goepel.com)

## **New Z1800 to TSLH Fixture Adaptor and Program Converter**

Teradyne, in cooperation with Circuit Check, Inc. has designed a fixture adaptor and program converter that allows manufacturers to quickly move Z1800 fixtures and programs to the latest Teradyne TestStation LH test system. The fixture adaptor and program conversion software allows manufacturers with Z1800 testers to maintain the investments they have in Z1800 programs and fixtures while at the same time benefiting from all the advanced testing features available in the TSLH for new board program development.

Teradyne also has a Z1800 fixture adaptor and program conversion software for manufacturers who prefer to move their Z1800 fixtures and programs to the Teradyne Spectrum test systems.

For additional information contact your local Teradyne Sales representative.

## **Device Model Services Available from Aspen Test Engineering T**

**Aspen Test Engineering**, a full turnkey solution provider for your 228X and TestStation applications, has recently announced the public offering of its full library of digital, hybrid, flash and micro controller test models.

Aspen Test specializes in the development of flexible and efficient microcontroller device models and can also develop custom device models based on user request. For a list of available device models and pricing information visit [www.aspentest.com](http://www.aspentest.com) or email them at [sales@aspentest.com](mailto:sales@aspentest.com).

## **Recorded Web Seminars**

Missed a Teradyne web seminar recently? Go to our Resource Center at [http://www.teradyne.com/atd/resource/type/web\\_recordings.html](http://www.teradyne.com/atd/resource/type/web_recordings.html) to view our complete list of technical seminars and links to the most comprehensive library of test and inspection topics available.

