

# JTAG TECHNOLOGIES SYMPHONY FOR TERADYNE TESTSTATION™

Universal boundary-scan upgrade for TestStation in Circuit Testers



## Teradyne Symphony Highlights

- Integration solution for Teradyne and JTAG Technologies
- Easy retrofit to existing fixtures and programs
- Fast integration of the boundary-scan hardware direct in the system
- Simple test program creation and debugging using JTAG ProVision™
- Can utilise existing Teradyne TestStation hardware (DSM card) - no need for additional equipment
- High-speed JTAG controller option using JTAG Technologies JT 37x7 DataBlaster family
- Familiar integration of boundary-scan tests using Teradyne user interface including error application diagnostics
- An increase in test coverage while reducing adapter costs

## The solution approach

The integration solutions offered by JTAG Technologies make it possible for test engineers to continue to get the most out of their existing ICT/FTP systems. Adding JTAG/boundary-scan to these systems provides increased error coverage and improved diagnostics, while reducing costs for highly complex designs.

## Using the DSM card

One option uses the Teradyne DSM (Deep Serial Memory) card adds boundary-scan capabilities to the 228x and TestStation systems.

Users that already have this option built in can add the boundary-scan capabilities by simply adding software. This integration not only allows the user to execute boundary-scan tests, but also allows these tests to be combined with the test pins of the Teradyne system. This method offers a 'best of both worlds' solution, optimizing fault coverage at a minimal cost.

## Using the JT 2147/CFM (Custom Function Module)

The alternative option uses a JTAG Technologies boundary-scan controller that is embedded into the Teradyne system. When used with the dedicated JT

Image 1, shows the TestStation™ from Teradyne. on the right the JTAG Controller incl. QuadPod for integration in the Teradyne system.

**Supported Systems:**  
ICT: GR228x and TS12x

**Overview Symphony Teradyne Package:**  
Hardware

- JTAG Controller (depending on the requirements), or
- Teradyne Deep Serial Memory (DSM) card

Software

- JTAG Technologies test execution software for JT 37xx boundary-scan controllers, or
- JTAG Technologies software for compiling boundary-scan tests into Teradyne System format
- Boundary-scan diagnostics for error analysis at pin level and transfer to the ICT/FTP system.
- Inclusion of the JTAG error/status notifications using Teradyne software.
- Permanent node locked License incl. Sentinel USB Key

Please request the Teradyne system requirements with indication of the serial number.

2147/CFM 'Built for Teradyne' pod the integration into the Teradyne system is especially straightforward. The JT 2147/CFM fits onto the Teradyne Custom Function Board (CFB) to allow a clean path from the boundary-

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scan controller to the fixture. Each JT 2147/CFM supports one TAP and a total 4 JT 2147/CFM cards can be fitted in the Teradyne ICT system. Although this option do not allow combined tests with ICT pins it does offer high-speed programming capabilities for flash memories, serial PROMs and so on due to its advanced architecture.

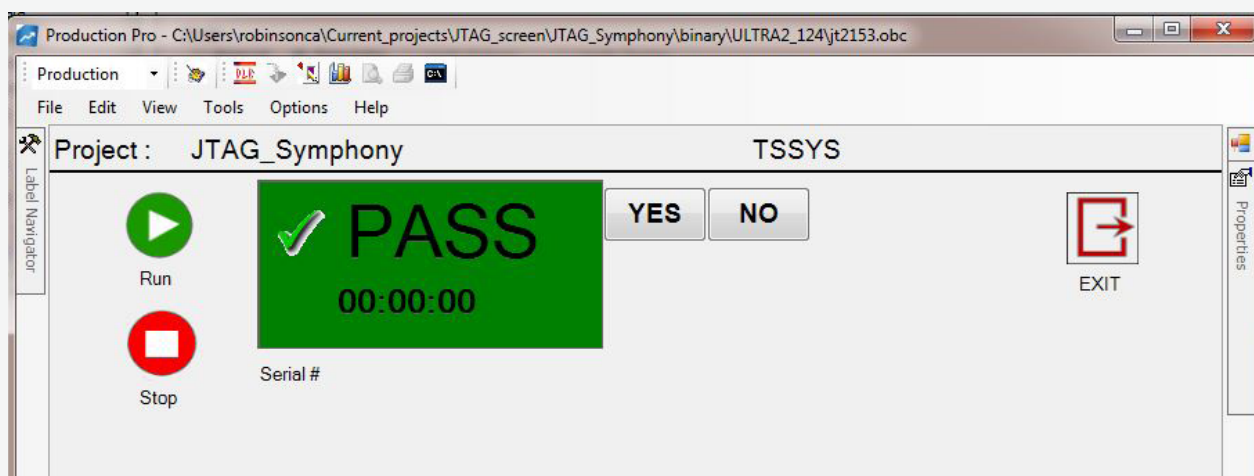
#### Data exchange for test generation

When developing test patterns for a board that connects to the ICT through a test fixture, it is necessary to know which tester resources connect to what test points on the board. This information is known within

the Teradyne software as the Nail Assignment Report (NAR). This information can be exported for use by JTAG ProVision. ProVision then has all the information needed to automatically generate a series of tests incorporating the tester pins e.g. infrastructure, interconnect, logic-, cluster- and memory connection. This enables fast and simple test program implementation even for mixed signal architectures, in which the resources of both systems are required.

Following debug, the test and programming routines are integrated in Teradyne run-time software, allowing boundary-scan diagnostics to be fully implemented in the final test reports.

Teradyne



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