ScanWorks®
Platform for Embedded Instruments

ScanWorks® Teradyne High Speed Subsystem Integration Software

Overview

Teradyne's PXI Express-based High Speed Subsystem (HSSub) hardware is the industry's next generation of advanced digital test instruments. The HSSub addresses defense and aerospace ATE requirements that are common to most recent designs including buses with increasing speeds, protocol complexity, and data quantities. Due to its scalable architecture, the HSSub addresses the demand to consolidate digital, analog, and RF UUT requirements into a single facility with common support infrastructure.

Seamless Integration

Because ASSET's ScanWorks Boundary-Scan Test software supports the HSSub hardware, board test and programming operations developed for the ScanWorks environment can be executed on HSSub hardware instruments configured in a Teradyne test platform such as the Teradyne Spectrum HS™ or Lockheed Martin electronic Consolidated Automated Support System (eCASS).

Test and Programming

The test vectors generated by ScanWorks are applied through the high-speed digital channels of an HSSub instrument by accessing the IEEE 1149.1 test access port (TAP) on the unit under test (UUT).

The HSSub instrument also provides other means for accessing the digital I/O on the UUT. The HSSub instrument functions as a ScanWorks controller. As such, it is well suited for IEEE 1149.1 and IEEE 1149.6 interconnect test, memory test, and PLD/FPGA or NOR/NAND/SPI flash programming. Testing cluster devices and other areas on the UUT can be accomplished effectively with the ScanWorks Component Action, macro programming language and scripting language, all of which are supported on HSSub instruments. Multiple TAP configurations, TAP concatenation, and discrete I/O signal specification is possible using an HSSub instrument, similar to ScanWorks multiple TAP controllers.

Powerful Debugging

The debugging capabilities with HSSub instruments are as powerful as those supported by all ScanWorks controllers. From the ScanWorks action debug tool, actions can be run step-by-step in real time, and reads and writes can be performed to any register, pin, or bus on the UUT.

ScanWorks Platform for Embedded Instruments

ScanWorks Platform for Embedded Instruments is a seamless software environment to access, run and collect data from any instrument in your chips, circuit boards or systems. The ScanWorks Platform includes products for Boundary-Scan Test (BST), Processor-Controlled Test (PCT), FPGA-based Fast Programming (FFP), FPGA-Controlled Test (FCT) and IJTAG test.

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