

UNIVERSAL BOUNDARY-SCAN UPGRADE FOR HUNTRON PROBER SYSTEM

JTAG Technologies Symphony for Huntron Automated Prober



Key features

- Low-cost integration of JTAG Technologies' boundary-scan (IEEE Std 1149.1) testing/programming and Huntron's automated prober
- Integrated test program development: JTAG ProVision software controls both JTAG Datablaster and Huntron prober during boundary-scan testing.
- Small foot-print bench-top system is ideal for low-volumes and prototype testing.
- Single production phase for boundary-scan and analog signature testing. (AST)
- Reduced AST program complexity and costs as a result of test point reduction, especially for complex digital PCBs where physical access to electrical nodes is limited
- Easy to retrofit to existing JTAG or Huntron base systems

The impact of high-density PCB design

As electronics designers continue to drive greater densities onto their printed circuit boards, testing for the occurrence of manufacturing faults becomes an increasingly difficult challenge for the test engineers. In-circuit testers can't always guarantee adequate test coverage, because the increased use of components with no physical access to the electrical pins: ball-grid array packages and inner board layers present inaccessible nodes, and the high density often makes the spacing between test points insufficient.

JTAG Technologies enhances the Huntron prober to reach the greatest testability and programmability of complex PCBs, performing I-V (analog signature tests) and boundary-scan tests within a single process step.

Mixed technology Test Strategy

The 'Huntron Tracker' is synonymous with PCB fault detection using the technique known as analog signature analysis. By adding JTAG Technologies boundary-scan test capability to Huntron's automatic prober the result is a powerful bench-top mixed signal tester.

Using Huntron's I-V curve tracer all accessible nets of a known good (aka 'golden') circuit board can be measured and the results stored for reference against production UUTs (Units under test) Since the I-V technique is a powered down test the Huntron's prober is ideal for checking powersupply nets and JTAG TAP signal nets before power is applied assuring a confident start-up for you UUTs.

Included in the Huntron Symphony Package

Huntron prerequisites (please contact info@huntron.com for details)

Ordering information: Part number: Symphony Huntron

- Boundary-scan controller JT3707
- QuadPod transceiver with 4 TAPs
- Connection between the static I/O's for one TAP pod and the Huntron access probe
- JTAG Technologies' SW module that controls the movement and stimuli for the Huntron access probe
- ProVision Platform Test with SW execution modules and sequencer that executes boundary-scan application for testing
- Boundary-scan diagnostics SW will translate failing boundary-scan test vectors back into their physical causes
- Permanent Node locked license with a JTAG key

We are boundary-scan.®

www.jtag.com

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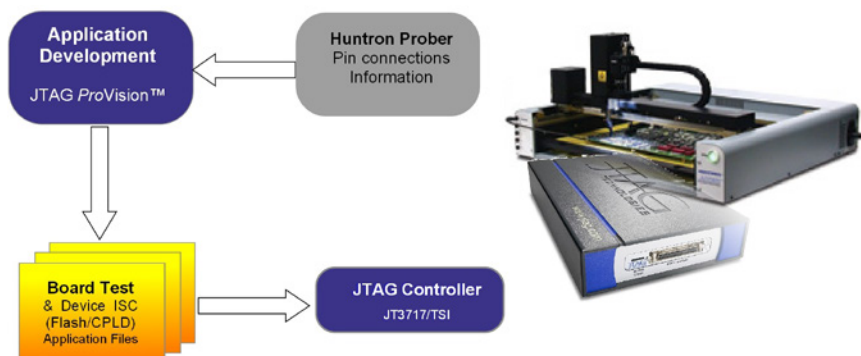
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Once powered the boundary-scan aspects can be tested using JTAG Technologies' DataBlaster hardware controlled from the ProVision user interface. What's more the Huntron prober can now act as digital I/O probe capturing or driving data at I/O points in the same way as conventional DIOS (Digital I/O Scan) module. Typical I/O points could be pins of a connector, passive parts or dedicated test 'lans'.

The JTAG Technologies' development tools support automatic generation of tests for the infrastructure, interconnections, memory cluster interconnections and clusters of non-scan devices as well as in-system programming of flash memories (NOR, serial types etc...) and CPLDs. Infrastructure tests checks the integrity of the boundary-scan chain, verifying that the test resources are functioning properly before initiating subsequent tests. the interconnection test checks the connections between boundary-scan components, pointing out possible short

circuits or pins not soldered. Test and in-system programming applications are executed on the JT 3727/TSI boundary-scan controller, that can be embedded with the Huntron tester.

Dataflow within Symphony



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