TEST AND PROGRAMMING EQUIPMENT FORGED ON IEEE 1149.1
Why boundary-scan / JTAG

WHY JTAG TEST AND IN-SYSTEM PROGRAMMING (ISP)

Modern digital devices often contain special logic built-in for:
- Finding soldering defects easily
- In-system programming of (flash) memories, PLD's and FPGA's
- Debugging printed circuit boards

Extra test capabilities
With this logic, accessed through the JTAG interface, existing test and measurement systems can be enhanced with extra test capabilities to increase quality control and save time in test development and diagnosis of faults.

JTAG Technologies’ hardware and software help you to get the most from this embedded logic throughout the entire lifecycle of your products.

We are boundary-scan.
Develop complete applications with ease

**JTAG PROVISION**

With JTAG ProVision you conveniently create and validate different JTAG applications. This advanced and intuitive development environment contains automatic generators for many test and in-system programming applications. For special applications that use instruments embedded in the chips the powerful scripting language Python is provided.

**Create your applications**

You can work with netlists from virtually any CAD system. A step-by-step process guides you in the creation of your applications. Using the device models from its library, ProVision analyses the different types of connections and how nets can be accessed and observed via boundary-scan.

Built-in coverage and analysis report options allow you to optimize the testability of your design before lay-out. You can link results to JTAG Visualizer to see a graphical representation in your schematics and lay-out.

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<th><strong>JTAG ProVision Feature</strong></th>
<th><strong>Benefit</strong></th>
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<tr>
<td>• Single/multi-chain boards</td>
<td>Maximum board design flexibility with minimum constraints.</td>
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<td>Single/multi-board systems</td>
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<td>• Design wizard for all applications</td>
<td>Easy to learn, built-in boundary-scan expertise.</td>
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<td>• Automation with extensive device model library</td>
<td>Rapid test and ISP application generation including 1149.6 applications such as LVDS.</td>
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<td>• Advanced view and control</td>
<td>Optimize designs for maximum coverage.</td>
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<td>• Integration of JTAG Visualizer™</td>
<td>View boundary-scan results on your schematic and layout.</td>
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<td>• Fault coverage analysis</td>
<td>Know your coverage and make adjustments before board layout.</td>
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JTAG Visualizer converts messages from different tools into highlights on your PCB schematic and layout. This eliminates guesswork and reduces paper-shuffling. You can use the tool stand-alone or integrated with your overall test plan.

**Improve test coverage**
Linked with ProVision you set and observe net constraints directly in your schematics and see how to improve your test coverage. Errors found during execution can be highlighted instantly.

In board repair JTAG Visualizer shows you the location of detected faults. Both JTAG reported faults and faults reported by other parts of your test and measurement system can be highlighted.

**Powerful engine**
With its powerful search capabilities, JTAG Visualizer offers a simple way to identify specific nets, components, and pins in the schematic and layout. Browse, zoom and cross-probe allow you to navigate your design intuitively.
JTAG Technologies offers a wide range of run-time configurations. The options allow you to easily implement the test strategy that best meets the needs of your OEM or CM production facility.

Stand-alone or integrated
You can choose to run your JTAG applications on a stand-alone boundary-scan station or integrated with an existing in-circuit, flying probe, or functional test system. Whatever your choice, the result is: simplified logistics, streamlined product flow, and reduced operator interaction.

For in-circuit, or flying probe testers integrated solutions are available for:
- Aeroflex
- Agilent
- Digital Test
- Seica
- Spea
- Takaya
- Teradyne

Integration solutions are available for functional test systems running under:
- VisualBasic
- C/C++/C#
- .NET
- GeoTest’s ATEasy
- National Instruments’ LabVIEW LabWindows, and TestStand.

www.jtag.com
RUGGED EQUIPMENT, RELIABLE OPERATION

Your boundary-scan application is as dependable as the hardware it runs on. Our controllers and auxiliary modules deliver high throughput and excellent signal integrity.

Available in all popular formats
DataBlaster controllers are scalable and available in all popular formats: PCI, PCIe, PXI, USB, Ethernet and Firewire. For budget-sensitive, demanding applications, choose ExplorerUSB.

Auxiliary DIOS modules add test coverage to portions of your design that lack boundary-scan access and socket test modules give you a convenient way to test sockets and connectors.

Remote Access
For remote operation over any distance, JTAG TapCommunicator drives boundary-scan tests and programming applications over your product’s native communications protocol. With no limitations in range or accessibility.
Our people distinguish our company. Our network of factory-trained field engineers is extensive and accessible, delivering world-class support when and how you need it - via email, phone or on-site.

360° support
We commit to providing the support expected from a mission-critical partner:

- Training, on-site or remote, tailored to your needs
- On-line access to product updates, FAQs, application notes, and technical documentation
- Reasonably priced software maintenance agreements
- Flexible software licensing for LAN and WAN corporate networks
- Professional services, covering test strategy consulting, BSDL support and turn-key application development

We help you get the most from boundary-scan, and provide advanced solutions in test and programming.
Boundary-scan technology helps overcome the test and programming challenges of complex PCBs. We actively participate and contribute to industry associations that set standards and drive the technology forward.

With our products customers world-wide have increased the quality of their products, reduced costs and improved time-to-market. With more than 7000 installations, a continuous track record of product breakthroughs, and the industry’s largest network of providers, JTAG Technologies is proud to lead the industry in boundary-scan solutions and services.

Global representation
Want to know more about our technology, products and services? Please contact us at one of our global offices.

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