ScanExpress™ Test & Programming Software

The ScanExpress suite of boundary-scan software offers a fully integrated development environment that includes boundary-scan and at-speed functional test program generation, test program execution with advanced pin-level diagnostics, interactive boundary-scan debugging, and In-System Programming (ISP) of devices such as Flash memories, Serial EEPROMs, CPLDs, and FPGAs.

The ScanExpress applications are modularized allowing the creation of custom-tailored solutions for any user. From full test development systems and production-only test stations to field service programming systems, flexible feature sets are available to suit any customer’s requirements.

Third-Party Test Executive Support

Third-party applications can execute ScanExpress software using a DLL or a command line interface. APIs are provided for integration with custom applications or popular software packages including National Instruments LabVIEW and TestStand, Keysight VEE, and more.

Integration with ICTs, MDAs, and Flying Probe Testers

The ability to reuse test vectors during different phases of the product lifecycle saves time and reduces cost. Corelis offers integration paths with other test technologies, such as In-Circuit Testers, Manufacturing Defect Analyzers, and Flying Probe Testers.

Flexible Licensing

ScanExpress applications use the industry standard FlexNet licensing system for single user node-locked or multi-user network floating licenses. USB hardware keys are also available for additional convenience.

Support & Services

Corelis staff includes highly training test engineers to assist in successful deployment of ScanExpress software systems. Available services include boundary-scan test procedure development, Design-for-Testability (DFT) analysis, product training, and software support & upgrade contracts.
**Generation**

- **TPG™**
  - **Intelligent Test Development**
  - The intelligent Test Pattern Generator provides an advanced, automated boundary-scan test design environment for the quick and efficient creation of complete boundary-scan tests procedures.

- **JET™**
  - **At-Speed Non-Intrusive Functional Testing**
  - The JTAG Embedded Test (JET) software is designed to overcome challenges by automating the functional test generation process with execution that is capable of controlling microprocessors for at-speed testing of peripheral components.

- **DFT™**
  - **Test Coverage Analysis**
  - The Design for Test (DFT) Analyzer is an automatic test coverage analysis application for printed circuit boards and systems that include a mix of boundary-scan and non-boundary-scan devices.

**Execution**

- **Runner™**
  - **Boundary-Scan Test Executive**
  - Runner™ executes boundary-scan tests, isolates faults, debugs test programs, and performs in-system programming in a pre-planned specific order called a test plan.

- **ADO**
  - **Boundary-Scan Advanced Diagnostics Option**
  - The ADO application is used in conjunction with Runner™ to automate failure analysis with boundary-scan test procedures in real-time and provides detailed reporting down to the net and pin level.

- **Viewer™**
  - **Visual Fault Diagnostics and Repair System**
  - Viewer™ is a powerful, graphical fault-identification system that helps isolate the source and location of faults encountered during the manufacturing and test of Printed Circuit Board (PCB) assemblies.

**Add-ons**

- **Merge™**
  - **System-Level Interconnect Solution**
  - Merge™ can be used to combine multiple target assemblies into a single boundary-scan compatible target system.

- **Flash Generator™**
  - **Flash Memory In-System Programming File Generation**
  - The Flash application is used to perform in-system testing & programming on Flash, CPLD, SEEPROM, and other programable devices.

- **Debugger™**
  - **Boundary-Scan Interactive Analyzer & Toolkit**
  - Debugger™ allows interactive control and observation of all the boundary-scan controllable inputs and outputs on a Unit Under Test (UUT) as well as a set of integrated Boundary-Scan utilities.
ScanExpress Software is designed from the ground up to integrate, interact, and combine to form a cohesive and intuitive test and programming environment. Use the diagram below to visualize the relationship between different software components and design your own ScanExpress test strategy!

For more information about Corelis ScanExpress Software, please visit:
www.corelis.com/products/jtag-products/jtag-software/