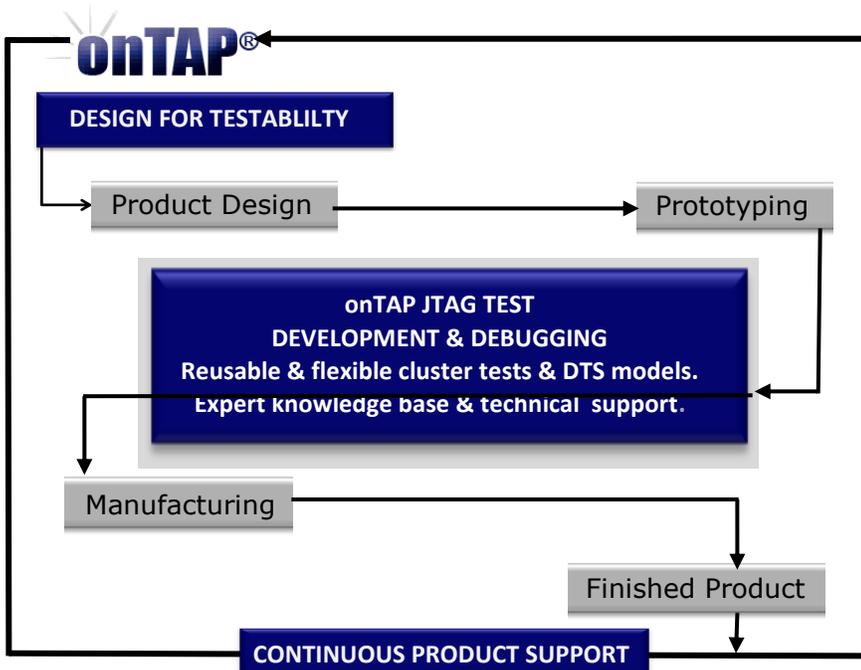


## onTAP Series 4000 Overview

onTAP Series 4000 software and hardware simplifies boundary scan test and programming throughout your product life cycle. It enables you to easily and cost effectively design, develop, manufacture and support your electronics with confidence.

With onTAP you will test your boards for IEEE 1149.1 and 1149.6 JTAG compliance, develop, debug, and implement all JTAG tests for scan and non-scan devices (DDR2, DDR3, DDR4, SRAM, NAND...), control multiple levels of I2C, program FLASH (In System Programming ISP), SPI Direct Drive, and implement Built In Self Test (BIST), all through a JTAG port and the onTAP USB Controller.

Flynn Systems' 15 years of testing JTAG IEEE 1149 standards delivers this robust and powerful solution. onTAP provides expert test solutions thanks to our vast knowledge base and JTAG testing experience, easy to use control screens with graphical debugging, and on-call technical support.



## PCB Design for Test and JTAG Compliance

*Improve your designs, reduce your costs and your time-to-market!*

With over 15 years of successful IEEE 1149.1 (JTAG) testing and development experience, combined with thousands of real-life user applications and projects, we are well suited to help guide your design with our design-for-test (DFT) tools. We also will provide live technical support to ensure your designs are optimized for IEEE 1149.1 and 1149.6 compliance and have the proper JTAG access to ensure the most comprehensive test coverage. Flynn Systems and onTAP will save you time and money from the start!

### Series 4000 Highlights

Automated Netlist-Based Test Generation

Test to IEEE 1149.1 and IEEE 1149.6 standards

The most comprehensive fault coverage

Pin-level diagnostics to quickly debug boards.

ProScan graphical interface/test environment

Friendly notebook style test development wizard

ISP Configures FPGAs & CPLDs

Test multi-die modules

Flash programming

Increased programming and verification speeds

Readers for over two dozen CAD netlist formats

BSDL file reader and syntax checker

Windows 7—Windows 10 compatible on 32 and 64 bit machines with 2.2 GHz Processor and 3 GB RAM



## Test Development

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onTAP's Development tool delivers rapid verification of your board design and layout.

When you are ready to test your design, onTAP interrogates the TAP, identifying and verifying boundary scan chain integrity.

Utilize onTAP's organized notebook tabs to quickly develop reusable JTAG tests, including memory and cluster tests and flash programming, plus reusable DTS models for flash and memory devices. Tests and models are transferrable to other sites, and projects.

Gain visibility and interact directly with your board through the ProScan test/debug environment.

## Manufacturing Test

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Know that you have proven, comprehensive, and cost-effective test solutions when sending your board to manufacturing!

The onTAP manufacturing tool enables you to implement pre-developed, proven tests from your design team, or those made for you by Flynn Systems as a turn-key service.

ProScan enabled and returns highly precise, pin-level diagnostic messages directing you to the exact location of the faults. Program your Flash memory devices, cluster test memory devices, and configure logic. onTAP with ProScan also provides low-level pin manipulation in this environment for simple step through pin diagnosis.

## Contract Test Development

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Flynn Systems has been a leader in ATG vector testing for over 25 years, and boundary scan testing for 16 years. We have the knowledge, experience, and foresight you need to develop a cost effective, rapid JTAG solution you can implement without any hassles. We have delivered solutions for large and small companies the world over. No project is too big or too small.

## Support

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After your designs, prototyping and test development are complete, Flynn Systems will work with you and your CM to quickly locate and fix faults ensuring board integrity and preventing delays in production.

When you use onTAP, you have access to over 25 CAD Netlist readers and a comprehensive library of models such as Flash, NAND Flash, DDR3, DDR2, SRAM, as well as CPLDs, FPGAs. You also have access to updates and upgrades.

Flynn Systems strives to deliver the best, most affordable JTAG Solution. With that comes responsive support delivering reliable improvements and updates to our tools based on your suggestions and needs. Use your laptop and our USB Controller to develop and implement onTAP tests wherever you are.

## Flexible & Reusable Models for Tests

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Flexibility is key when working in a test and manufacturing environment. Series 4000 allows you to make simple changes to DTS models. Those changes eliminate templates and restrictions on how and where the models can be used. When you change a model, chances are you'll want to re-use that model in another design. onTAP provides that freedom.

## Flash Programming

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onTAP Series 4000 will program your FLASH memory rapidly through the onTAP USB Controller and JTAG port.

Flynn Systems' USB programming Controller offers an adjustable TCK rate, and is configurable from within the software.

Flynn Systems maintains a comprehensive library of FLASH memory devices, along with models for memory devices such as DDR2, SRAM, SDRAM etc. as well as CPLDs and FPGAs and will create new models for your project.

## Incorporating Modules

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With shrinking real estate on boards, devices get smaller and more compact, sometimes containing several pieces of silicon - we know them as modules. onTAP easily incorporates modules and their internal parts during test development, making sure all elements are properly tested.

