

# AdaCAST for Aonix



## Testing Support for Aonix Compilers

### Product Features

Integrated with  
ObjectAda, ActivAda, and  
Raven

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Automatic downloading  
from host to target  
processor

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Allows software  
component test in  
embedded environment

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Integrated code coverage  
capabilities

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Operates in native and  
target environments

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## Automated Software Component Testing Integrated with the Aonix Development Environment

### < What is AdaCAST for Aonix? >

**AdaCAST for Aonix** is a comprehensive software module test system integrated with the Aonix compilers for embedded development. **AdaCAST** assists developers in testing individual software components prior to system test. This state-of-the-art automation includes the tasks of building complete test harnesses, test cases and execution reports. Prior to **AdaCAST**, testers were required to manually generate test code to isolate components before any testing could begin. **AdaCAST** removes this preparation work with automatic test code generation.

With the AdaCAST for Aonix test system the following **benefits** are realized:

- Automatic generation and compilation of **test stubs and driver programs**
- **Integration** with the Aonix ObjectAda, ActivAda, and Raven compilers
- **Test cases** built with GUI or with scripts
- **Automatic** generation of test cases based on min-mid-max and fixed increments through a range of values
- **Interactive** point-and-click and script generated test case construction
- Test case modification and re-execution **without re-compilation**
- Automatic **regression testing**
- Standards compliant test **report generation**
- Comprehensive branch, statement and MC/DC **coverage analysis**
- **Computation of test data** for path coverage
- Cyclomatic **Complexity Metrics**

### < How it Works with Aonix >

**AdaCAST** for Aonix plug-in is an automated software test solution that extends the Aonix open integrated development environment. The **AdaCAST** plug-in simplifies the development of embedded solutions by helping users test robust applications in record time. The **AdaCAST** for Aonix product is customized to the target CPU, Cross Compiler, and Run-Time environment.