

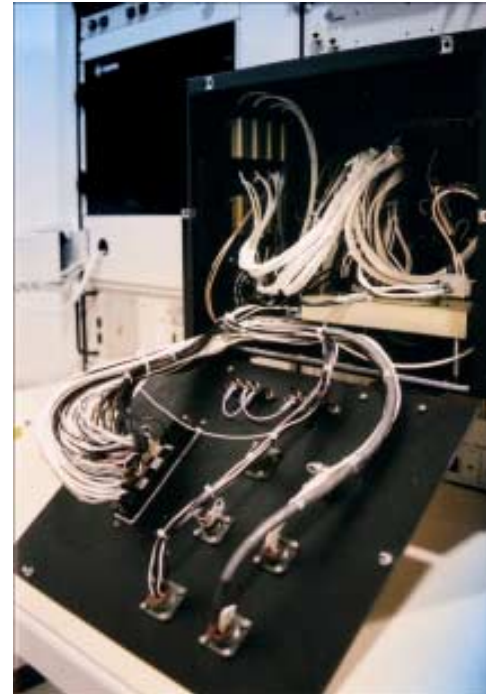
## Calibration and Self Test Fixtures

Symtx supplies calibration and self test fixtures, with associated software, for support of your functional test stations.

### Product Overview

Our self test fixtures are available in both signal loop back and pin electronics configurations. Signal loop back fixtures route station inputs and outputs together under software control to minimize fixture hardware cost. These fixtures are configured to verify a specific set of test station resources. Pin electronics fixtures provide additional flexibility to test families of test systems where the resources vary from station to station. Each fixture contains the stimulus and measurement circuitry needed to verify operation of the corresponding station instrumentation without loop back to other resources in the station.

Calibration fixtures are also available to extend the calibration reference plane from the instrument input and output connectors to the Interface Test Adapter (ITA) pins that connect to the Device Under Test (DUT). Software is available with these fixtures to generate the calibration factors required by your application code.



### Benefits and Key Features:

- Automated verification of station performance
- Fault isolation for simplified station support
- Calibration extension to the DUT interface
- Common fixture usage across multiple station configurations for reduced cost
- Signal frequencies to 50 GHz
- Signal handling to 1000 V and 100 A



### Primary Applications:

- Production test
- Depot test
- System calibration
- Maintenance
- Test platform support
- Aerospace / Defense

## Signal Loop Back Fixtures

Symtx supplies Signal Loop Back (SLB) fixtures, with or without associated self test software, to verify operation of all measurement and stimulus resources in the station. This assures that the station is fully operational prior to testing DUTs, avoiding potential quality issues, as well isolation of failures for station support.

SLB fixtures are designed to allow the station to test itself, routing each stimulus to a corresponding measurement input for verification. The fixture provides loads and signal conditioning to simulate DUT characteristics as required for station operation. Signal switching is often provided if not available to a sufficient degree in the station itself.

Symtx supplies a wide range of SLB fixtures to cover your test station operating and support needs. Our high power fixtures are capable of handling signals to 1000 volts and 100 Amps per pin. Conversely, we supply fixtures to route and verify Pico amp current sources. And our RF and microwave fixtures are rated for frequencies to 50 GHz.



## Pin Electronics Fixtures

Symtx supplies Pin Electronics (PE) fixtures for applications that require a single fixture to test a family of differing test station configurations or where the test station lacks sufficient input or output resources to allow the use of a Signal Loop Back fixture. For example, a common test platform architecture may be configured to test a family of products. To minimize cost, individual test stations are only populated with the instrumentation required for the devices they are testing (with modular switching and addition or removal of particular measurement equipment). A single PE fixture is capable of verifying operation of all stations in this family, independent of the station configuration, thus greatly minimizing support costs.

Symtx PE fixtures provide independent stimulus and measurement capability on each I/O port in the ITA. In each case the fixture circuitry is optimized for testing the resources available at that port, providing an indication that the resources are operating within specification.

### Contact:

**Symtx Corporate Offices**  
4401 Freidrich Lane, Building 2, Suite 200  
Austin, TX 78744  
Ph: 512.328.7799 Fax: 512.328.7778  
[www.symtx.com](http://www.symtx.com)

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