

CALIBRATION AND SELF-TEST FIXTURES

TEXTRON Systems



Better, Faster, More Affordable Testing

AAI Test & Training's Automated Test Equipment (ATE) group provides a range of calibration and self-test fixtures, along with associated software, to support customers' functional test stations, verify station performance and promote precise, reliable testing.



CALIBRATION AND SELF-TEST FIXTURES

AAI Test & Training's ATE center of excellence is located in Austin, Texas. The team's calibration and self-test fixtures for functional test stations are an affordable, high-performance system verification solution for production test, depot test, system calibration, maintenance, test platform support and the unique needs of the aerospace/defense industry.

Self-test fixtures are available in both loop-back and pin electronics configurations. All fixtures contain the stimulus and measurement circuitry to verify the operational status of the station under test without loop-back to other resources in the station.

Calibration fixtures are available to extend the calibration reference plane from the instrument input and output connectors to the interface test adapter pins connecting the device under test. Available software generates the calibration factors for the customer's specific application code.

Additional features and benefits include:

- Fault isolation for simplified station support
- Common fixture usage across multiple station configurations for reduced cost
- Signal frequencies up to 50 gigahertz
- Signal handling up to 1,000 volts and 100 amperes

Signal Loop-Back Fixtures

AAI Test & Training's ATE team provides signal loop-back fixtures to verify operation of all measurement and stimulus resources within the station prior to testing. System verification avoids potential quality issues and isolates failures for station support.

These fixtures are designed to enable station self testing, routing each stimulus to a corresponding measurement input for verification. They provide loads and signal conditioning to emulate the device under test during station operation. Signal switching can be provided if availability within the station is insufficient.

The team supplies a wide range of signal loop-back fixtures capable of handling signals to 1,000 volts and 100 amperes per pin. Conversely, fixtures can be provided to route and verify pico-amp current sources. In addition, radio frequency and microwave fixtures are rated for frequencies up to 50 gigahertz. All signal loop-back fixtures are available with or without associated self-test software.

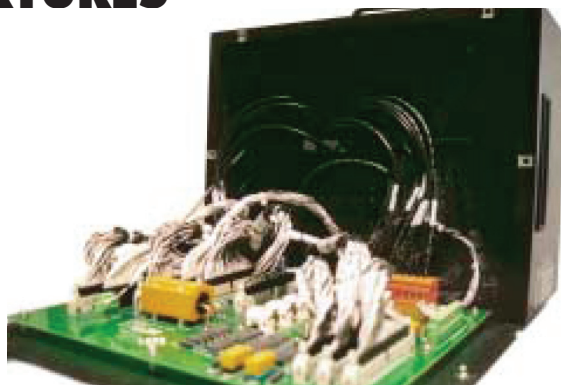
Pin Electronics Fixtures

Pin electronics fixtures are suited to applications that require a single fixture to test a family of different test stations, or in which the test station itself lacks sufficient input or output resources for the use of a signal loop-back fixture.



For example, a common test platform may be customized station by station with the instrumentation required specifically for the device under test. A single pin electronics fixture can verify operation of all the test stations, independent of custom system configurations, to minimize support cost.

AAI Test & Training's ATE team delivers pin electronics fixtures to provide independent stimulus and measurement capability on each input/output port in the interface test adapter. In each case, fixture circuitry is optimized for testing the resources available at that port, providing an indication that the resources are operating within specification.



For additional information, please contact:

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