

TESTJIG

Automated Testing For Production Boards



“With TestJig we are saving about 50% of the production testing time for DHG boards, and getting a test accuracy of 100%. It thus enables us to deliver the best to our customers - efficiently and consistently.”

Chandrashekhar Rajee
CEO,
Digihome Solutions Pvt. Ltd.

Automated Testing For Production Boards

Current Scenario

There are many factors that affect the productivity and production costs rise.

- ◆ Testing of multiple interfaces and software modules on hardware boards
- ◆ Large number of production
- ◆ Lot of time consumed for manual testing
- ◆ Human error

Hence, automation testing is a must for testing of software features and hardware interface.

TestJIG Features

Aftek has developed a Test Jig to automate testing of hardware interfaces and software features and functionality. Test Jig also saves the cost of product verification and testing.

The tests cover:

- ◆ **Hardware Interfaces testing** for production go or no-go. It also provides endurance testing for each hardware interface.
- ◆ **Firmware testing simulators** for given software are implemented on Test Jig. QOS and benchmarks parameters are tested for software functionalities under normal and load/stress conditions.
- ◆ **Reports** help in analyzing failure conditions and patterns to detect software errors at different conditions.

Currently there are various hardware interfaces supported by TestJig such as Switch, RJ-45 Ports, RJ-11 Ports, RS-485 Ports, RS-232 Ports, USB Ports, Device IO boards, RF Devices, WiFi Interfaces and RF based remote controls.

For more information please write to us at: information@aftek.com

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Aftek's TestJIG



TestJig is an automated testing suite developed to support one through all stages of product development, from R&D efforts, to mass production, to software testing. Test Jigs' verification and testing services improves the quality of the product while at the same time reducing the cost of product verification and testing.

The tests cover:
Stress testing, Regression testing, Load testing

Report Layout

Payload files are obtained in .txt format and the test reports are shown in .CSV format.

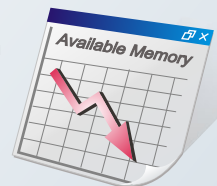


A typical report file generated by TestJig compiles of:

- ◆ Test cases and host name
- ◆ Date and time
- ◆ Command and TestJig code
- ◆ Results and payload
- ◆ Execution time

Graphical Display

A Graph that shows available memory in the system when an application was kept running for more than 2 days.



Business Benefits

- ◆ **Reliable and Repeatable:** Eliminates human error.
- ◆ **Reusable and Programmable:** Sophisticated tests can be performed and reused on different versions of application/hardware.
- ◆ **Comprehensive and Cost effective:** Meets the need of skilled labor for regression testing and can build a suite of tests that covers every feature of an application.
- ◆ **Reports and Speed:** Consolidated reports are generated that help analyzing problems in the boards significantly faster than human users.

