

QE49

Boundary Scan Test Trainer System



To educate & train the students in Boundary Scan testing, detecting scan chains of JTAG chains, testing of non boundary scan devices using boundary scan devices etc

Boundary Scan as defined by the IEEE STD 1149.1, is an integrated method for testing ICs and its inter-connects on highly complex and dense printed circuit board without using physical test probes (Virtual).

QE49 Boundary Scan Trainer Kit provides a good understanding of the Std1149.1 on BST. Testing principles, namely, the scan chain test, interconnect test, non-BS functional testing of logic IC and cluster like a combinational or sequential circuits via Boundary scan Devices.

The QE49 Trainer Kit is a fully integrated solution for the diagnosis of Programmable Logic Devices (PLDs).

A BST to arbitrarily observe individual pins and therefore determine their functionality. This information can be saved in customizable test procedures which can also include pictures and data sheets. EXTEST mode is also available to manually change the state of pins and trace the effect(s) on the other device(s) in the chain.

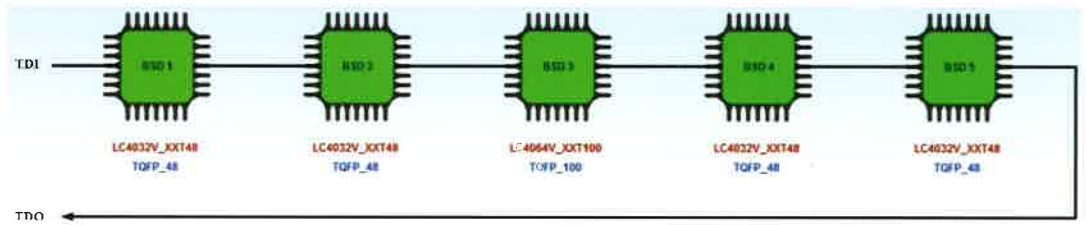
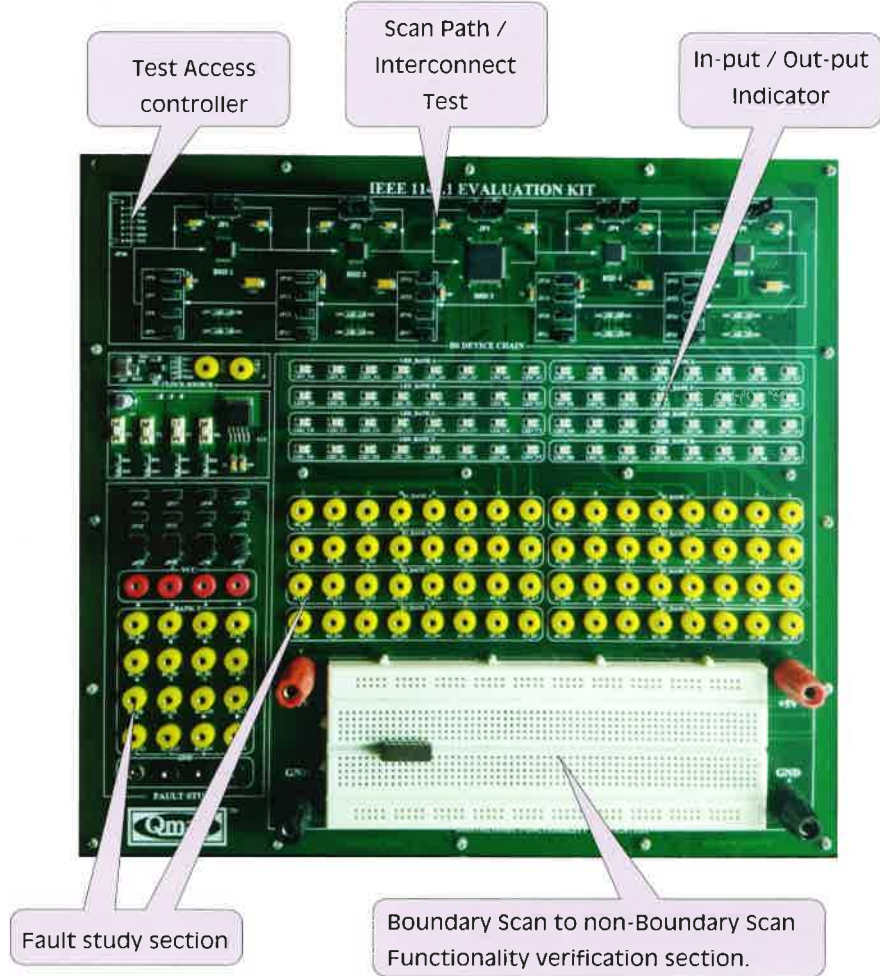
An interface designed to handle industry standard STAPL files (Standard Test And Programming Language) and SVF files (Serial Vector Format) to send testing functions to the device. QE49 uses the JTAG Standards (Joint Test Action Group, compatible with IEEE1149.1) which ensures compatibility between all compliant ICs for Boundary Scan Test.

BST with the tutorial and Test modules included in the software makes the trainer to evaluate the trainees easily and with the record of data log.

QE49 has the features of BST as follows;

- Boundary scan testing
- Scan Chain detection of JTAG chains
- Built in Training Software module
- JTAG/IEEE 1149.1 compatible
- USB2.0 compatible
- Built-in power supply (1.8 to 3.3 Volts)
- Non Boundary Scan Devices Test using BS Devices
- Vero Board for plug and Test of NBS Devices
- Easy configurability for Power Pins of NBS Devices
- Test and Evaluate Module for Assessment

Experiment
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Recommended minimum PC/AT configuration : Core i3 processor, 4GB RAM, 500GB HDD, CD/DVD combo drive, 2 USB ports, Key board, Mouse, 15" Monitor, Windows7 Professional 32/64 bit OS.

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— where standards are set; not matched.

For more information, mail to :
sales@qmaxtest.com

Or visit us at :
www.qmaxtest.com

TOLL-FREE PHONE - INDIA : 1-800-425-9627

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