

Ideal Starter Package

The SYSTEM 8 Diagnostic Solution is the solution to board fault-finding problems. Equally at home with analogue or digital PCBs, the system's 64 digital and 24 analogue test channels provide a variety of fault-finding techniques to track down the most elusive faults. The in-circuit IC test is the heart of the digital fault-finding system - look into an IC, and check that it functions correctly, look outside, and confirm that it is correctly wired. Analogue functional testing allows for the detection of faults on components wired in-circuit. Use the analogue V-I tester, with selectable test frequencies and voltages, to check discrete analogue components. Compare the results with a known good board, automate fault-finding procedures with the test sequence generator, and fault diagnosis becomes truly effortless!

The Diagnostic Solution comprise of a Board Fault Locator module and an Analogue IC Tester module and requires a PC for operation. Modules are available with PCI or USB interface and include the SYSTEM 8 Premier software.



Analogue



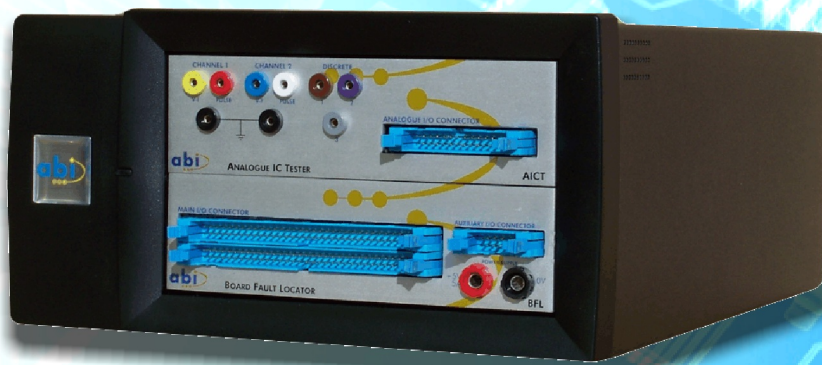
Digital



In circuit



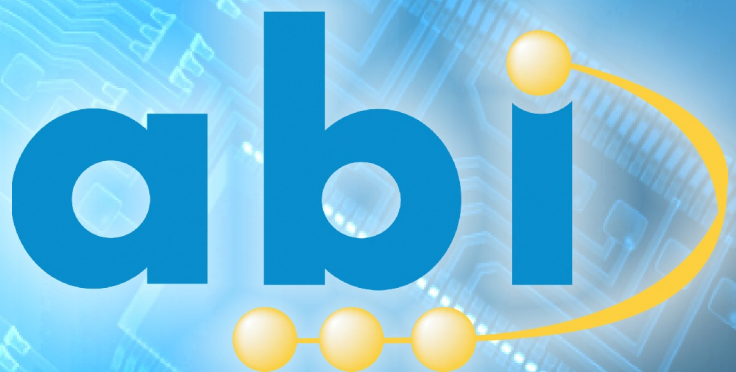
PC required



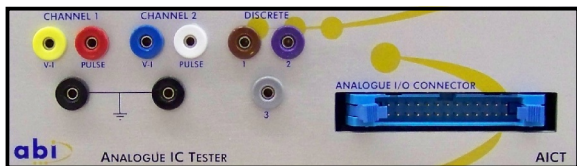
- Short Locator
- IC Tester
- Digital V-I Test
- Graphical Test Generator
- IC and EPROM Verifier
- Analogue Functional Test
- Discrete Devices
- Test Flow Manager
- Automated fault-finding sequences

SYSTEM 8 Diagnostic Solution

The SYSTEM 8 Diagnostic Solution offers the best in analogue and digital fault-finding.



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Analogue IC Tester

Analogue Functional Test

The 24 test channels available on the Analogue IC Test Solution have the facility to drive analogue voltage onto the PCB and measure analogue responses (in both voltage and current) from the device under test. The same channels can also be set to restrict the output of the device under test to a specified voltage in order to protect connected circuitry and facilitate a more comprehensive test of the device.

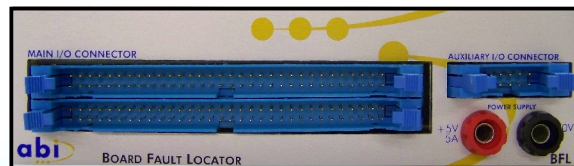
The inclusion of these features in the SYSTEM 8 Analogue IC Tester means that analogue ICs can be verified by a functional in-circuit test by simply attaching a clip.

Discrete Devices

Testing discrete devices is easy using three dedicated channels. A wide range of programmable voltage and current stimulus/measurement features are offered. This allows many different devices to be tested ranging from power transistors to high-gain Darlington transistors.

The SYSTEM 8 Analogue IC Tester can be used to efficiently diagnose faults on analogue PCBs down to component level, or for functionally testing ICs. No other product offers such comprehensive test and fault diagnosis facilities at such a low price.

- In-circuit functional analogue test
- In and out-of-circuit functional test for discrete components
- Board comparison fault diagnosis
- Clear pass or fail results
- Circuit diagrams not required
- 24 analogue channels
- Auto comparison with stored results
- Unique 'as wired' testing
- Auto clip positioning
- Fault finding to component level
- Incorporates power-on/power-off tests
- Diagnose faults even on 'dead' boards using industry standard V-I technique



Board Fault Locator

Short Locator

3 resistance ranges. Audible indication of proximity to short. Automatic probe calibration. Visual indication of proximity to short. Audible continuity checker.

IC Test

64 test channels (expandable to 256). 4 bus disable outputs. Truth table, voltage, connections, thermal and V-I tests. In-circuit and out-of-circuit (with adapter) testing. TTL, CMOS, Memory, Interface, LSI, CPU, PAL, Linear and package libraries. Programmable logic thresholds. Loop modes for intermittent faults. User library manager for adding new or custom ICs. Logic trace mode to display test waveforms.

Power Supply

5V DC at 5A for PCB under examination. Overvoltage and overcurrent protection. Electronically controlled from IC Tester. Programmable switching delay.

Digital V-I Test

Optimised for digital components. 64 test channels (expandable to 256). Voltage 2.5 to 20V. Waveform zoom facility. Current limited for IC protection.

Graphical Test Generator

64 channels (expandable to 256). Graphically programmable for custom test vectors. Vectors can be saved and loaded, or auto-learned.

IC Identifier

Identify unknown, illegible or house coded ICs.

EPROM Verifier

Read, view, save and verify EPROM's from 2k x 8 to 256k x 8. In- or out-of-circuit (with adapter).

The SYSTEM 8 Board Fault Locator is a powerful IC Test system capable of testing most digital ICs. A variety of IC test methods provide comprehensive fault diagnosis capability, including in-circuit IC testing, IC connections and voltage testing together with V-I testing which allows testing of components with no need to power the board.

- In-circuit and out-of-circuit
- Through hole or SMT
- NAND gates to CPUs
- DIL or PLCC or SOIC
- Standard or custom logic
- TTL or CMOS



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