

intelligent
visionary
innovative



The SYSTEM 8 Range

The SYSTEM 8 Range of fault-finding, component test and measurement equipment provides unrivalled capabilities.

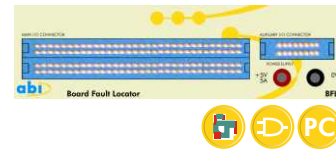
Whether your problem is design verification, production test, semiconductor device testing, production repair or field service, and whether your boards are analogue, digital or both, the range can offer you a cost-effective solution.

abi
Making Light Work

The SYSTEM 8 Range is made up of modules which can be combined to suit a variety of test applications. Modules require a PC to work and a PCI interface connection and Premier software is included. System options enable serial or parallel connection in an external case.

Board Fault Locator Module

This is an entry level system, designed for digital IC testing in- and out-of-circuit. With 64 test channels it provides 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. Up to 256 channels are available as an option.



Analogue IC Tester Module

The Analogue IC Tester can functionally test analogue ICs and discrete devices in-circuit. The software allows all common analogue ICs to be tested as they are configured on the PCB, without programming or the need to refer to circuit diagrams, with clear and easy to understand results. Combining power-on and power-off tests, this is the ideal solution to fault find analogue PCBs.



Analogue Test Station Module

For users requiring the identification and testing of analogue devices without the need for functional testing, the Analogue Test Station Module is a cost-effective option with an Analogue V-I Tester and Resistance Meter for testing discrete analogue components and fault-finding on analogue PCBs. Comprehensive fault-finding functions including live comparison of good and bad boards are provided.



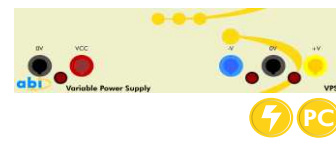
Multiple Instrument Station Module

The Multiple Instrument Station provides no less than 8 high specification test and measurement instruments in one compact module. Ideal for design or education, or for general purpose workbench use, the system has a Frequency Counter, Digital Storage Oscilloscope, Function Generator, Auxiliary PSU, Digital Floating Multimeter and Universal I/O.



Variable Power Supply Module

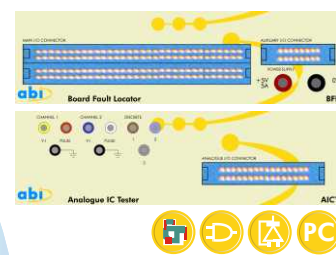
The SYSTEM 8 Variable Power Supply provides the necessary supply voltages to the unit under test to allow other SYSTEM 8 modules to be utilised in fault-finding. The three output voltages are variable in both voltage and current making the Variable Power Supply suitable for a wide variety of applications.



A combination of the SYSTEM 8 modules above can be used to suit your own application. However, we have put together some of the most common combinations in our range of Solutions

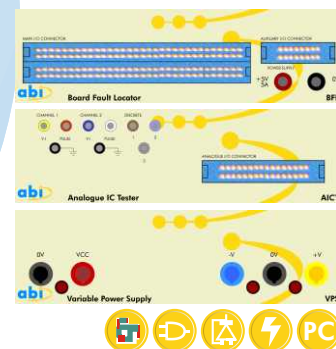
Diagnostic Solution

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. 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!



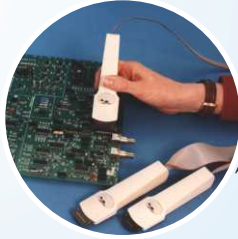
Diagnostic Solution PLUS

Add to the SYSTEM 8 Diagnostic Solution an integrated power supply for diagnostic testing and you have the SYSTEM 8 Diagnostic Solution PLUS. This provides the necessary supply voltages to the unit under test with three output voltages which are variable in both voltage and current.



- 
Measurements
- 
Power Supply
- 
PC required
- 
In-circuit
- 
Digital
- 
Analogue

intelligent
visionary
innovative



The MultiProbe tool



The PenProbe tools



A full range of clips and cables available

SYSTEM 8 Accessories

Accessory

	Diagnostic Solution PLUS	Diagnostic Solution	Board Fault Locator	Analogue IC Tester	Analogue Test Station
64 way test cable assembly	●	●	●		
64 way split cable assembly	●	●	●		
MultiProbe: 0.050" 10 pin SOIC, PLCC	●	●	●	●	●
MultiProbe: 0.100" 8 pin DIL	●	●	●	●	●
PenProbe: 3 pin SOT32 and similar	●	●		●	
PenProbe: 3 pin TO72 and similar	●	●		●	
PenProbe: 3 pin TO220 and similar	●	●		●	
PenProbe: 3 pin TO92 and similar	●	●		●	
DIL test clip set, 0.3" gauge	●	●	●	●	●
DIL test clip set, 0.6" gauge	●	●	●	●	
SOIC out-of-circuit adapter, 28 pin wide	†	†	†		
SOIC out-of-circuit adapter, 16 pin narrow	†	†	†		
SOIC test clip set and cable assembly	●	●	●		
20 pin PLCC test clip and cable assembly	●	●	●		
28 pin PLCC test clip and cable assembly	●	●	●		
44 pin PLCC test clip and cable assembly	●	●	●		
52 pin PLCC test clip and cable assembly	●	●	●		
68 pin PLCC test clip and cable assembly	‡	‡	‡		
84 pin PLCC test clip and cable assembly	‡	‡	‡		
100 pin QFP test clip and cable assembly	‡	‡	‡		
144 pin QFP test clip and cable assembly	‡	‡	‡		
160 pin QFP test clip and cable assembly	‡	‡	‡		
208pin QFP test clip and cable assembly	‡	‡	‡		
Automatic out-of-circuit IC Test Adapter	●	●	●		

† Requires Automatic out-of-circuit IC Test Adapter
‡ Requires product upgrade

Premier Software

Premier Software is supplied with all SYSTEM 8 modules, giving advanced control of your system.

- ✍ Advanced control software
- ✍ Utility management systems
- ✍ Custom instrument design
- ✍ Automatic test procedures
- ✍ User definable logging, comparison and control facility
- ✍ Calculator with flexible data logger, instrument and procedure control

At the heart of the software is the TestFlow Automatic Test Manager. It not only speeds up testing but allows the system to be used by semi-skilled operators.

A technician stores a test procedure for a particular PCB, which can include his knowledge of the board, schematics, bitmap images, components and his experience of fault finding in a 'prompt box'. The semi-skilled operator need only follow the instructions on-screen to carry out a test on even the most complicated equipment.

The TestFlow Automatic Test Manager provides automatically documented fault-finding sequences by comparing good and bad boards. Test points, test methods, operator instructions and a report generator with statistical functions are all available on-screen in an easy to follow format.

Choosing the right system

	Diagnostic Solution PLUS	Diagnostic Solution	Board Fault Locator	Analogue IC Tester	Analogue Test Station	Multiple Instrument Station	Variable Power Supply
Channels per instrument (Analogue in brackets)	64 (24+24)	64 (24+24)	64 ‡	(24+24)	(24)	4 (4)	N/A
Power supplies	2-7V ±24V	Fixed 5V	Fixed 5V			5V ±9V	2-7V ±24V
Discrete testing	●	●		●	●		
Analogue impedance test	●	●		●	●		
Digital impedance test	●	●	●				
Logic supplies	●	●	●			●	●
Measurement *						●	
Short locator	●	●	●				
Unknown IC search	●	●	●				
Out-of-circuit	○	○	○				
In-circuit	●	●	●	●	●	●	●
Analogue test	●	●		●	●		
Digital test	●	●	●				
IC functional test	●	●	●	●			

* DSO, Function Generator, Frequency Counter, Digital Floating Multimeter, Universal I/O
○ Upgrade options: 128, 192, 256 channels
○ With adapter included

PremierLink Software (Optional)

PremierLink is a PC based software that allows users to add new devices to the library, select a variety of tests and create new functional tests to suit special applications. Test routines for devices included in the System8 built-in library can also be viewed.

New IC functional tests can be created using *PremierLink IC Programming (PLIP)*, a high level descriptive test programming language optimised for generation of both analogue and digital IC test programmes.

Versatile, modular and upgradeable

Across the board applications

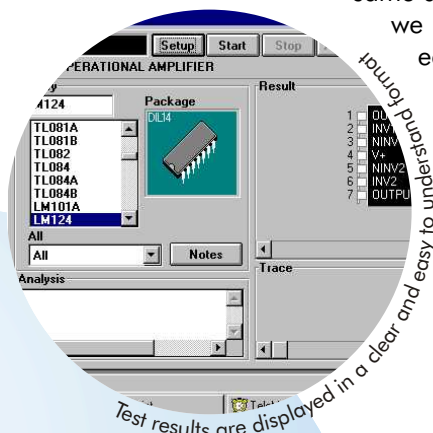


Cost-effective fault-finding

Today's rapidly changing, dynamic and progressive electronics industry presents multiple problems to engineers, whether they are working in design, production, test or fault-finding. Electronic circuits are becoming faster, smaller, cheaper and more complex. Cost-effective test and repair is also becoming more difficult to achieve. As a result, you are making ever increasing demands on your test equipment to keep pace with the challenges presented by this explosion of technology. If you recognise the problems, you are half way to finding the solution.

Even though technology marches relentlessly on, the basic nature of faults remains the same. ICs still fail, diodes still become open circuit, capacitors still become short circuit. A solder bridge today is the same as a solder bridge 10 years ago. But today we must find these faults quicker. "Beyond economical repair" does not mean that the board cannot be repaired, only that it will take too long.

Economics of repair also includes the cost of test equipment. The SYSTEM 8 Range offers cost-effective fault-finding across a wide range of applications.



Test results are displayed in a clear and easy to understand format

Your local distributor:



ABI Electronics Limited
Dodworth Business Park
Barnsley S75 3SP
South Yorkshire
United Kingdom
Tel: +44 1226 207420
Fax: +44 1226 207620
www.abielectronics.co.uk