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 Board Fault Locator module requires a PC for operation. Modules are available with PCI or USB interface card and SYSTEM 8 Premier software.

Digital

Out of circuit

In circuit

PC

PC required

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

SYSTEM 8 Board Fault Locator

A powerful IC Test system incorporating a variety of IC test methods to provide comprehensive fault diagnosis capability, including in-circuit IC testing, IC connections, voltage testing together with V-I testing.

abi

www.abielectronics.co.uk

64 channel Board Fault Locator Module

Digital IC test capability

Number of I/O channels:	64-256
Number of guard outputs:	4 or 8
Live comparison:	64 x 2, 128 x 2 with additional modules
Drive output voltage:	TTL/CMOS compatible
Drive output current:	Device dependent
	Typical H-L 80mA @ 0.6V
	Typical L-H 200mA @ 2V
	Max. 400mA
Drive slew rate:	>100V/µs
Receive input:	+/-10V
Input impedance:	10k
Termination:	Programmable for tri-state/open collector
Drive states:	Low, high, tri-state
Over voltage protection:	<0.5V, >5.5V
Test time:	Dependent on device
Circuit modes:	In-circuit. Out-of-circuit (with adapter)

Power supply for board under test

Automatic power supply:	1 x 5V @ 5A fixed
	(2 x 5V @ 5A fixed for 128 channels)
Over voltage protection:	7V
Short circuit current:	7A

Test modes

Single:	Single test
Loop:	Unconditional, loop while good, loop while bad
Auto:	Find tightest valid thresholds

Test thresholds

Resolution:	100mV
Low levels:	TTL 0.1V to 1.1V
	CMOS 0.1V to 1.5V
Switching levels:	TTL 1.0V to 2.3V
	CMOS 1.0V to 3.0V
High levels:	TTL 1.9V to 4.9V
	CMOS 1.9V to 4.9V
Swept low levels:	TTL 0.1V to 1.1V
	CMOS 0.1V to 1.5V
Swept switching levels:	TTL 1.2V
	CMOS 2.5V
Swept high levels:	TTL 1.9V to 4.9V
	CMOS 1.9V to 4.9V

Test types

Truth table (functional):	Library based functional test
Connections (MDA):	Short circuit detection
	Floating input detection
	Open circuit detection
	Linked pin detection
Voltage:	Resolution 10mV
	Range +/-10V
	Logic state detection
VI:	Number of channels 64 - 256
	Sweep ranges -10V to +10V
	(programmable)
	Maximum test current 1mA
	Multi-plot with single waveform zoom
Thermal:	Indication of pin temperature

Test libraries

Library classes:	TTL 54/74 logic, CMOS, Memory, Interface, LSI, Microprocessor, PAL/EPLD, Linear, Package, Special and user defined
Package types:	DIL, SOIC, PLCC, QFP

Accessories

Standard	Automatic out-of-circuit adapter
	1 x 64 way test cable
	1 x 64 way split test cable
	1 x V-I probe assembly
	1 x BDO cable
	1 x Short locator cable
	1 x Ground clip
	1 x PSU lead set

Options

Internal fitting	PCI interface
External fitting	MultiLink case (cost option) with USB.
	External case (cost option) which can hold up to 5 SYSTEM 8 modules (USB Interface).

The ABI development team strive continually to improve their products for the benefit of the customer. The specification of current products may therefore vary from that described in this brochure.

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