



- Functional In-Circuit Testing
- Functional Board Level Testing

SYSTEM 8 Advanced Test Module

Technical Datasheet



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Specifications

Number of I/O channels:	64 per module - expandable to 2,048 channels
Number of guard outputs:	8 per module
Drive output voltage:	+/- 10V
Drive output resolution:	20 mV
Drive output current:	600 mA
Compatibility standard:	DEF 00-53 (defence standard)
Drive slew rate:	> 100V/ μ s
Sense input voltage:	+/- 20V
Sense input resolution:	10 mV
Sense input detection:	Actual voltage measurement
Sense input thresholds	Fully programmable
Input impedance:	10k
Channel termination:	Programmable for tri-state, pull up and pull down Fully bi-directional
Memory per channel:	Unlimited
Circuit modes:	In-circuit, out-of-circuit (with adapter), board level (with test fixture)
Automated functions	Auto clip positioning Automatic circuit compensation Automatic drive level offset compensation

Test modes

Single:	Single test
Loop:	Unconditional cycle
True Loop:	Cycle as long as test passes
False Loop:	Cycle as long as test fails
Auto (swept):	Finds tightest valid thresholds

Test types

Truth table (functional):	Library based functional test
Connections (MDA):	Short circuit detection Floating input detection Open circuit detection Linked pin detection
Voltage:	Logic state detection with programmable thresholds
VI signature analysis:	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:	All logic families including TTL, CMOS, LVTTL, ECL, DTL, LSI, RTL, PECL, LVPECL, Memory, Microprocessor
Package types:	DIL, SOIC, PLCC, QFP
Connector types:	D Type, Edge, PCMCIA, SCSI, DIN, Header, IEEE

Operating System

Windows XP[®], Windows Vista[®], Windows 7[®] (32 and 64 bit versions in USB)

Interface

PCI, USB

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.

Notes :



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