

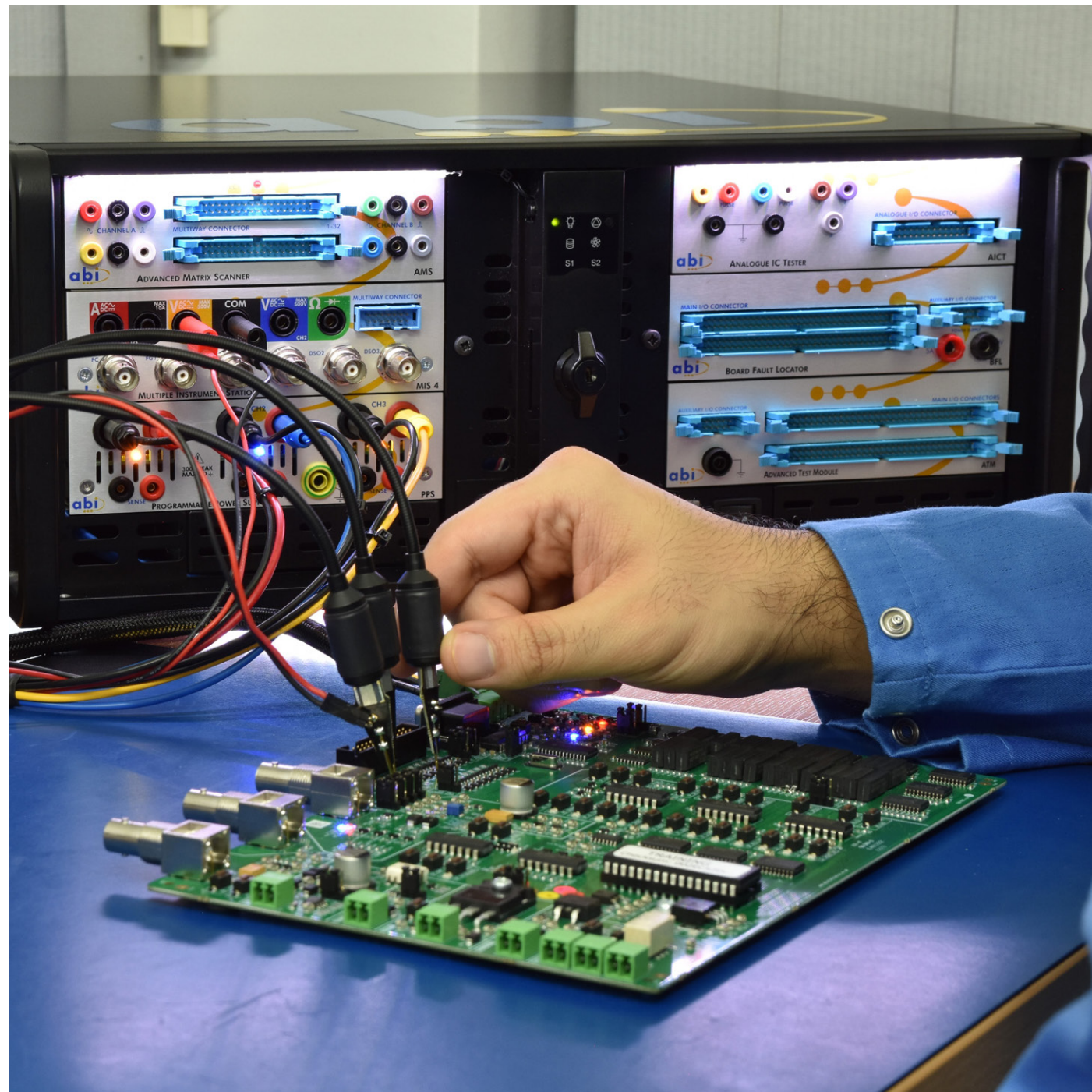


ABI Electronics

World-leading Test & Measurement Solutions
Since 1983



REPAIR DON'T WASTE



ABI Electronics offers unique, time-saving and flexible products, used by major companies operating in a wide range of sectors. ABI's fully integrated hardware and software solutions allow our customers to take control of their electronic maintenance requirements, automate quality tests and generate schematics for legacy equipment, to keep critical assets in operation for longer.





About Us

ABI Electronics has designed and manufactured cutting-edge fault diagnostic solutions in the UK since 1983. We have over 40 years experience in developing the highest quality testing and fault-finding equipment. Backed by a global reputation of high quality and service, we are certified in accordance with ISO 9001:2015. Over the years, we have remained loyal to our core principle of designing and manufacturing quality products in-house, in the UK.

Our company founders developed the world's first, low-cost integrated circuit testing solution, adopted by engineers worldwide. This was a huge success for the repair industry, that kickstarted our product line and reputation as a leading provider of test and measurement equipment.

Today, our range of products are commonly used in the maintenance of highly complex systems across a variety of industries and applications globally, including rail, aviation, defence, energy and semiconductor manufacturing. Our products are renowned for their adaptability and the value they add from reduced costs and downtime.



Changing Values & Behaviour in the Industry

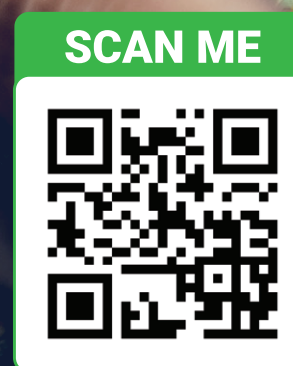
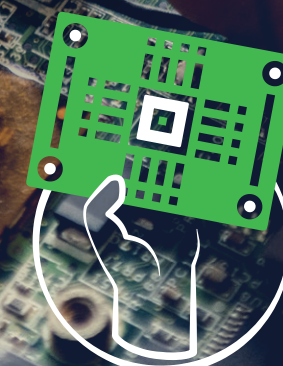
Created in 2015, ABI's initiative Repair, Don't Waste has become a global movement aimed at increasing awareness around the benefits of repair over replacement across multiple sectors. Repair, Don't Waste movement members save collectively over £100 million per year, reducing e-waste and downtime while creating new job opportunities around the world.

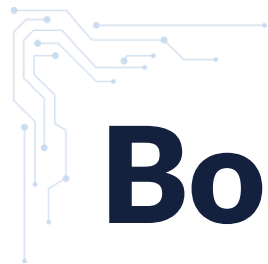
#RepairDontWaste

Share your repair success stories and champion our movement on social media through our popular hashtag.



REPAIR MINDSET





BoardMaster



As the product of choice for companies operating in sectors including rail, aerospace, military, automotive, energy and semiconductor manufacturing, the BoardMaster is ABI's top of the range solution, saving time and money, whilst increasing asset availability and reliability.

Equipped with a wide range of diagnostic instrumentation and ABI's TestFlow software, it allows for a variety of test methods to be executed and guarantees the best possible fault coverage for your technicians.

ABI's Universal Diagnostic Solution

Test and Diagnose Circuit Boards Using the BoardMaster's Range of Features:

- Component & board level testing
- Digital & analogue functional tests
- Power on & power off tests
- Multi-point measurements
- Automated test procedures
- User-friendly software
- Data logging and reporting
- Customisable instruments

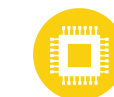
Benefits:



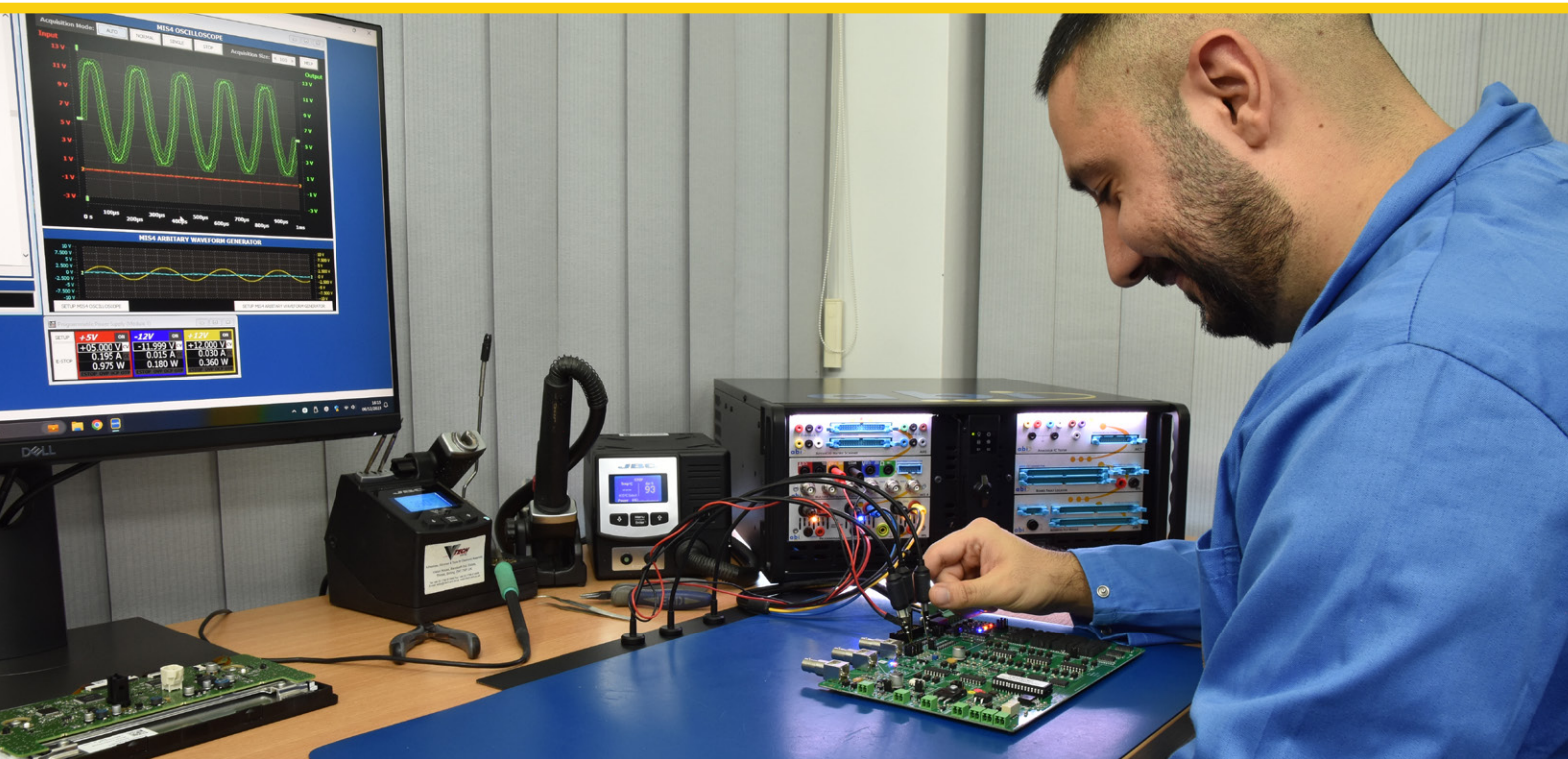
More repairs in less time without added staff or inventory



Obsolescence mitigation through the recovery, repair and reuse of assets.



Independence from manufacturers for through-life support



Available In:



BoardMaster 19" Rack
(Optional Windows PC available)



5, 7 & 9 Bay USB Case
(Windows PC not included)





Advanced Matrix Scanner (AMS)

The Advanced Matrix Scanner uses an innovative approach to V/I signature testing, upgradable to 256 channels, the SYSTEM 8 AMS increases test coverage by varying the frequency of the test signal to observe the DUT's (Device Under Test) response over a wide frequency range. This can lead to finding faults not detectable with other instruments.

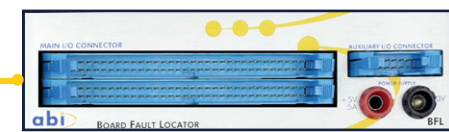
Analogue IC Tester (AICT)

The AICT allows in-circuit functional testing of analogue ICs and discrete components. All common analogue devices can be tested as they are configured on the PCB, such as optocouplers, transistors, opamps, and comparators. The AICT also includes a pulse generator to test gate-activated devices.



Multiple Instrument Station (MIS4)

The MIS4 combines a variety of high-specification test instruments, including an oscilloscope, arbitrary waveform generator, ammeter, voltmeter, ohmmeter, frequency counter, universal I/O, and power supply, into one compact module.



Board Fault Locator (BFL)

The BFL provides the ability to functionally test all common digital ICs in and out-of-circuit, as well as flash devices using the built in EPROM verifier. Upgradable to 256 channels, enabling live comparison of good and bad boards, this unit delivers a high level of fault coverage.

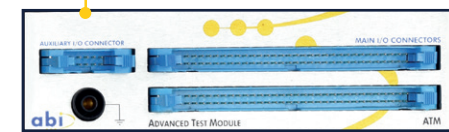


Programmable Power Supply (PPS)

The Programmable Power Supply (PPS) is our most ambitious power supply module developed for the SYSTEM 8 range. This scalable, versatile, 120W unit allows for low to medium volume production tests, +/- voltage driving and measuring, and predictive/corrective troubleshooting.

Advanced Test Module (ATM)

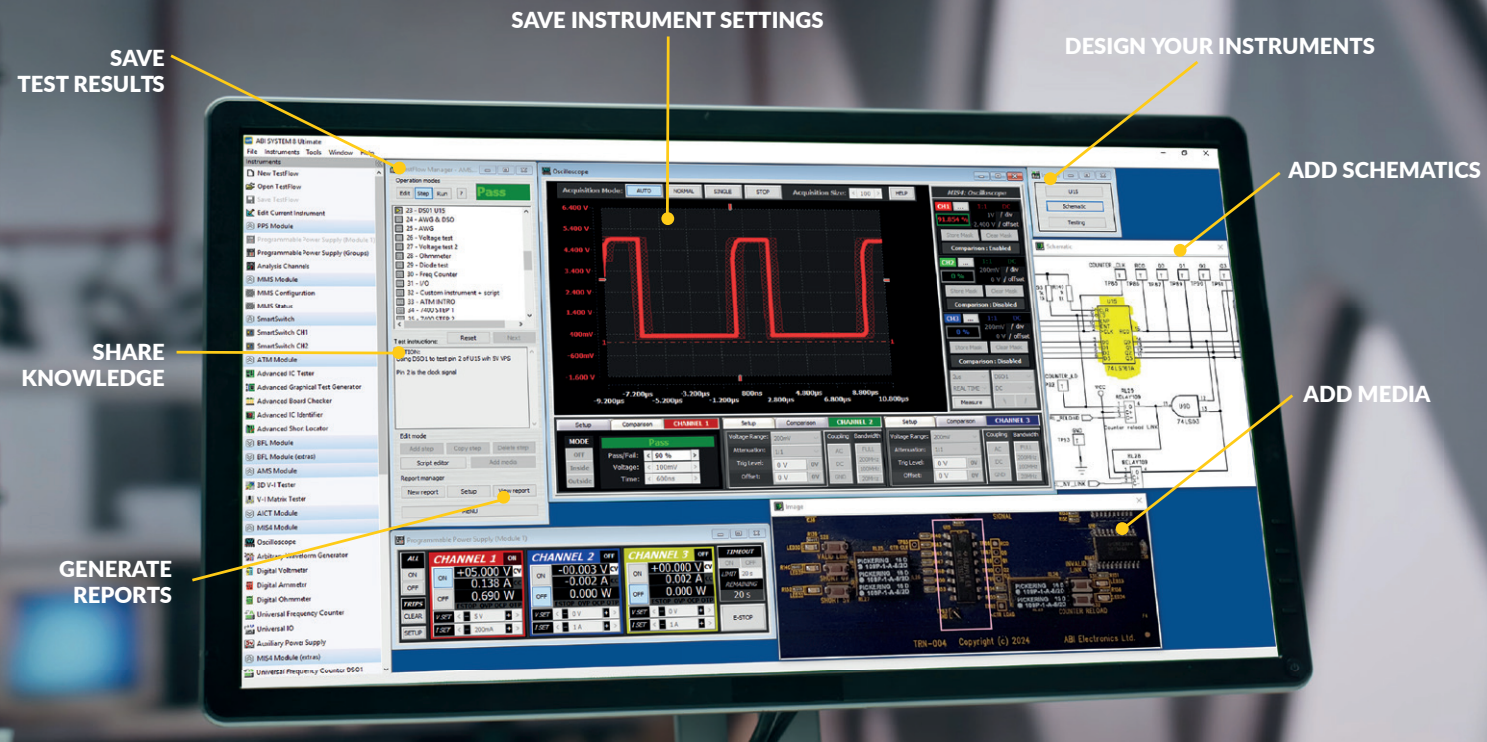
The ATM is a board-level testing solution designed to diagnose all digital ICs and PCBs from all logic families, including TTL, CMOS, LVTTTL and ECL. The module offers power on and power off tests, both in and out of circuit. With high specifications and up to 256 channels, the ATM is ideal for PCB testing under power-on conditions.



Powered by
SYSTEM 8 ULTIMATE

Modules not sold separately

Software



ABI equipment comes complete with our user-friendly, multi-license SYSTEM 8 Ultimate Software, a Windows-based program, designed to operate our BoardMaster, RevEng and Multiplexed Matrix Switch products. Our customers benefit from free lifetime updates and a range of customisable features and user access control.

Testflow Report



The TestFlow Manager is a step-by-step sequence generator that guides operators during fault-finding, predictive maintenance or diagnostic processes. The TestFlow greatly reduces the risk of inaccurate measurements and automatically saves all test results on a customisable report, accessible wherever you are.



RevEng

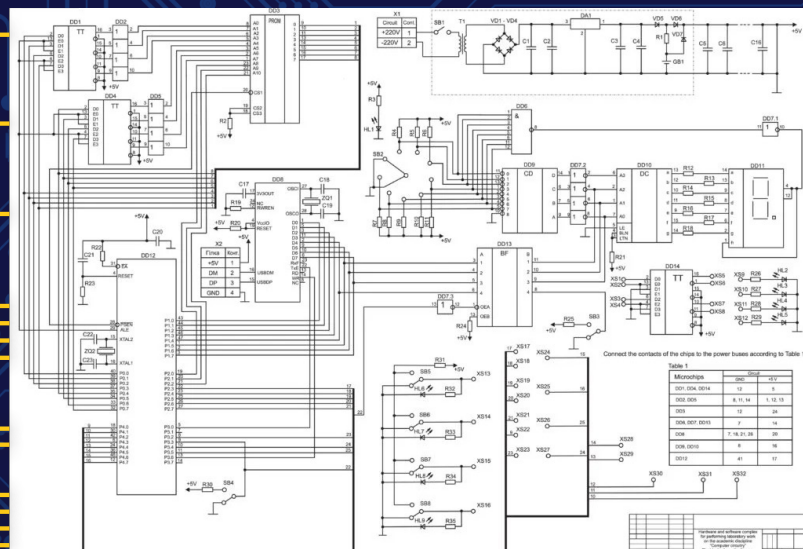
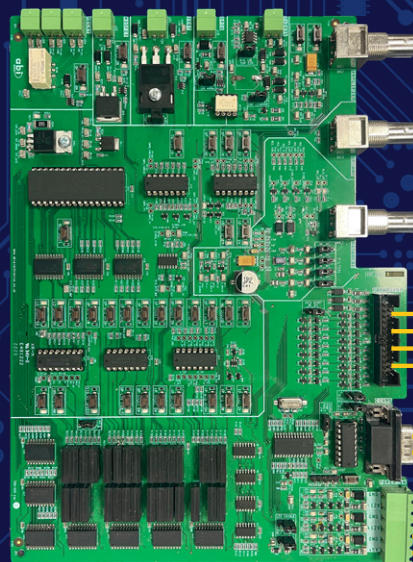


Get From PCB to Schematics Fast!

A lack of circuit board schematics can cause serious issues for effective electronics repair and obsolescence mitigation. Needing PCB schematics fast? RevEng is the answer!

Features:

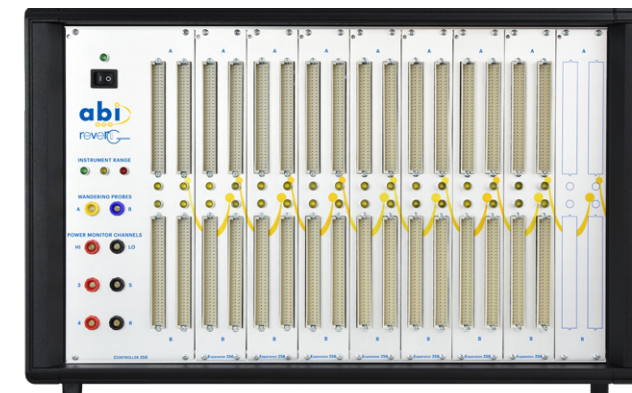
- Learns Connectivity
- Connects to every device on the PCB
- Generates a Net List
- Creates partial & full board schematics
- Easy, error proof, automated process



Cabinet System

A high pin count system for multiple requirements and large circuits, the cabinet system is equipped with a control card and up to 2048 measurement channels.

The system can be expanded to the maximum channel capacity at any time after installation to meet changes in budget availability or application requirements.



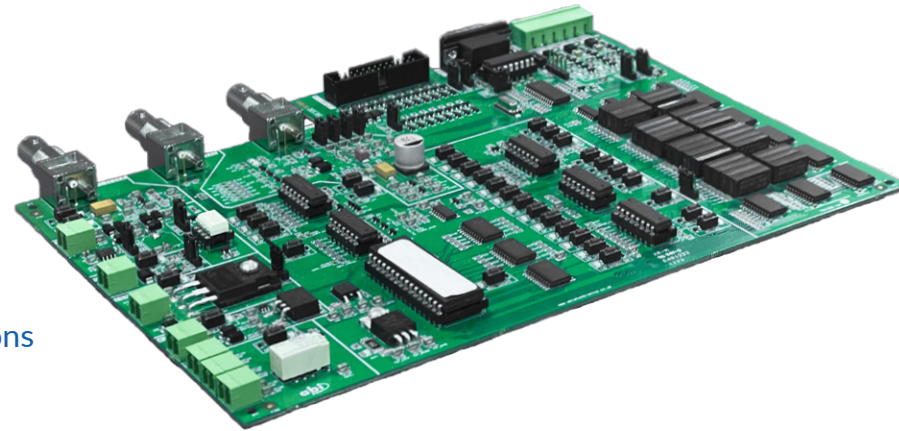


Training Board

Our versatile training package provides a comprehensive understanding of our powerful repair solutions, the BoardMaster and RevEng, and their extensive features. With over 150 learning functions, it provides a variety of programmable circuit board fault conditions to test and develop your electronic repair skills.

Features:

- Digital fault conditions
- Analogue fault conditions
- Automatic calculations
- PIC controlled operation
- Waveform and signal comparisons
- Variety of training TestFlows



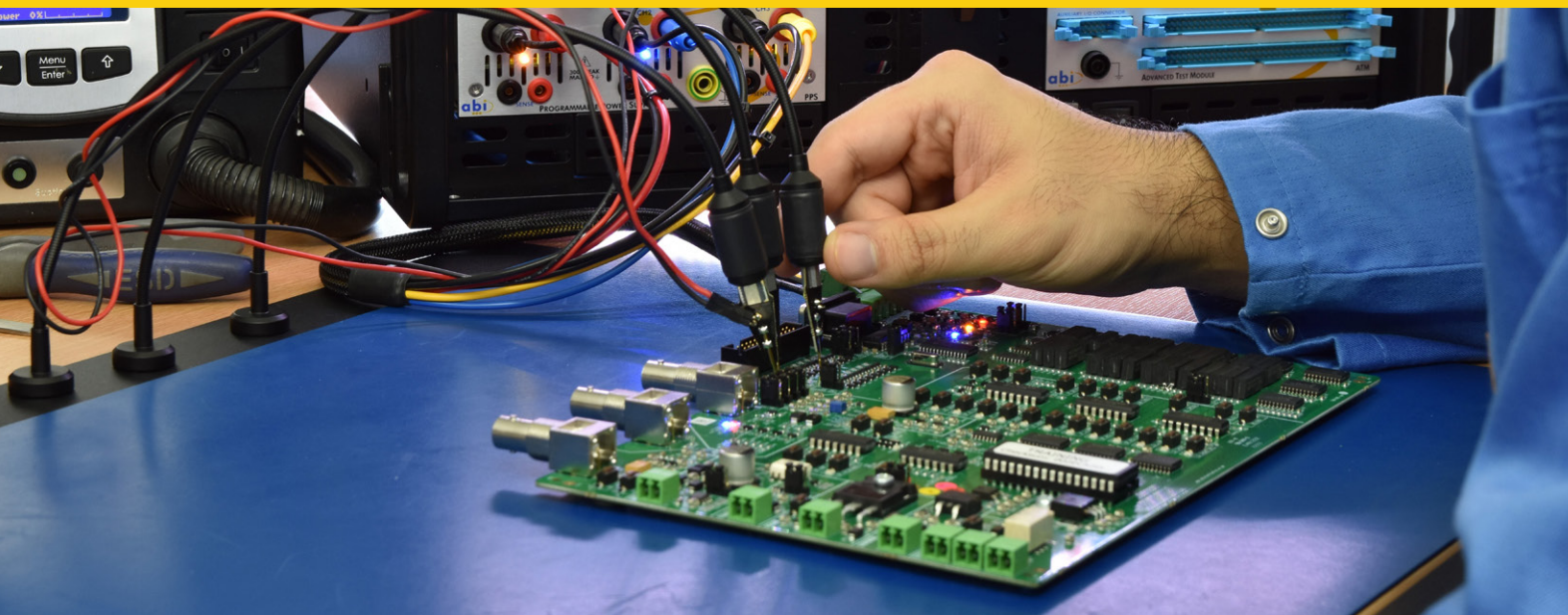
JTAGMaster



The JTAGMaster is a fully integrated solution for configuring and diagnosing programmable logic devices. The product comes equipped with boundary-scan testing capabilities to determine pin functionality as well as a programming interface to send instructions and test functions to the device. ABI uses the JTAG standard to ensure compatibility with all IEEE compliant ICs.

Features:

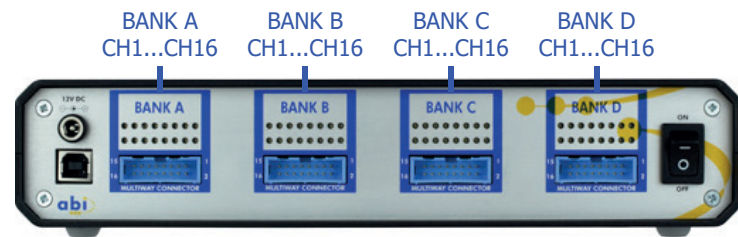
- Access components that cannot be probed
- Program devices in-system regardless of manufacturer
- Integrate easily into your BoardMaster setup
- Implementable at all levels, from R&D to production
- Test EEPROM devices with external adapters



Multiplexed Matrix Switch



Paired with the BoardMaster, the Multiplexed Matrix Switch (MMS) provides route signal capabilities for design verification and data acquisition. Run automated functional tests to measure and compare signals from up to 64 points on a circuit. Easily achieve reliable, high-level results without programming and make more efficient use of cables, clips and probes.



Benefits:

- 1 No Programming**
Obtain high-level results without the need for programming
- 2 Create Interactive Test Sequences**
Automatic/semi-automatic test sequences with on-screen instructions, targets and results
- 3 Combine with the BoardMaster**
Drastically reduce both test set up time and execution to get results faster
- 4 Reduce Costs!**
A much cheaper alternative to traditional ATE, PXI or LXI instrumentation
- 5 Accelerate Your Test Execution**
Establish standardised test routines and fault logging for future referencing
- 6 Wide Variety of Tests**
Power off testing, integrated circuit functional testing, connection testing and custom tests

Works exclusively with BoardMaster

SENTRY

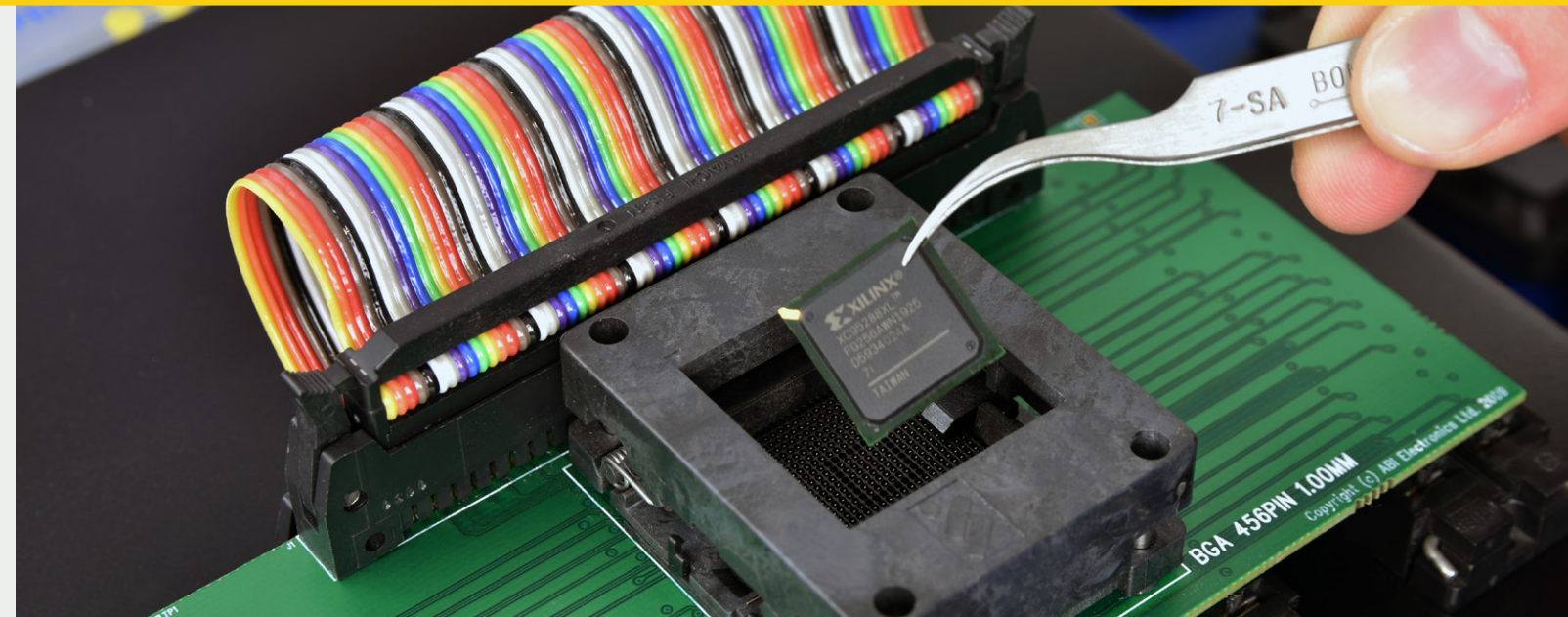


A unique solution for the quick detection of counterfeit and non-conforming components. SENTRY is an ideal addition to your existing anti-counterfeit measures and goods inwards inspections.

SENTRY acquires the PinPrints of reference devices to store and compare with incoming devices. The reference can be a trusted component from a batch, or a device imported to the library. The results can then be easily shared between users.

Features:

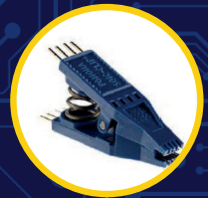
- Suitable for digital & analogue components
- Compatible with all packages using adapters
- Minimal knowledge of electronics required
- Easy to use software with report generation



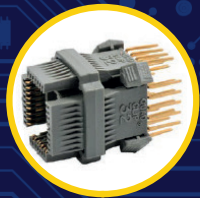
Accessories



ABI provides a wide range of accessories.



SOIC Clips



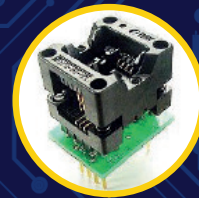
PLCC Clips



DIL Clips



EZ Probers



SMD Adapters



Pen Probes

For more information contact us at sales@abielectronics.co.uk

Focus on the Measuring Point!

The SmartSwitch is an accessory that allows technicians to maintain full focus when probing a measurement point. Actions such as running a test or stopping a test can be carried out using the SmartSwitch pedals, which are supplied with the BoardMaster.



SYSTEM 8
SmartSwitch



Business Value

External repairs are costly and time-consuming, and when parts become obsolete, the whole system can be deemed unrepairable, forcing companies to buy new or upgrade large portions of infrastructure. Aside from this, there is also the environmental impact to consider, throwing away repairable PCBs as E-waste. ABI's offering allows for:



Reduced
Downtime



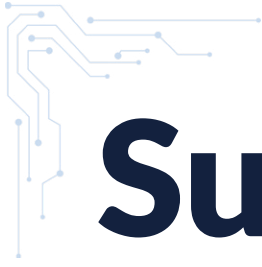
Obsolescence
Mitigation



Improved
Maintenance



E-waste
Reduction



Support

We are here to help

Customer service is a massive part of our commitment to continued quality and product development. We always strive to provide quick and efficient support to our customers worldwide. Servicing, maintenance and upgrades are available for all our products.



Tech Support

Direct access for technical support needs from ABI's engineering team, based in the UK, and from our global distributors, to minimise system downtime.

Quality Reputation

ABI Electronics is certified in accordance with the ISO 9001:2015 standard, based on a consistent, ongoing commitment to quality, professional fulfilment of duties and constant expansion and development.

Upgrades

Stay updated with free lifetime software and maintenance upgrade releases for all our products, including new features and bug fixes.

Certified Training

We strive to meet our customer's training needs, offering a range of training courses and certification, complete with hands-on opportunities, which can be delivered in-house, online or on-site.





ABI Electronics Customers

ABI products are used globally for a variety of applications by companies operating in a wide range of industries from rail, automotive and aerospace to military, industrial maintenance and education, showcasing our solutions adaptability to any repair strategy.



ABI Distributors

More than 60 Distributors Worldwide



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