

In-Circuit Test Development

Technical Information



Platforms

Abtest has the ability to develop In-Circuit test programs for all TERADYNE GR 227x, 228x and TestStation systems. We have off-line development capability using MVAX, UNIX, Windows NT workstations.

Experience

The engineers at Abtest have over 10 years experience in developing TERADYNE GR In-circuit test packages and of high volume production environments.

Turnkey Packages

We provide complete solutions for In-Circuit testing on TERADYNE GR 227x, 228x and Test Stations testers.

Reliability & Safety

Our fixtures and software are designed to offer reliability, repeatability and safety in high volume production environments.

In-circuit testing is an electrical inspection tool used to check that a printed circuit board has been built correctly. It can ensure that all the testable components have been fitted and are the correct value, tolerance and orientation. Abtest offers the complete package for TERADYNE GR In-Circuit testing.



A subsidiary of TT electronics plc



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Fixturing

Working with our strategic fixture partner, all our packages utilise precision test fixtures for production testing of electronic printed circuit boards. Our package includes: fixtures utilising hold down gates with covers for operator safety, risk assessment report, spares kit and where appropriate purpose designed fixture hardware. Abtest offer to customise fixtures to suit individual needs. These can be configured to incorporate, Vacuum, Pneumatic, Single / Double sided, Single and dual well configuration, Switch probes and Test Xpress.

Program Development

The test programs are written in-house to meet your specification and requirement using MVAX, UNIX and Windows NT workstation offline development tools. We offer individual device modelling to improve the test coverage of your product. If test access is a problem, we offer the facility of cluster testing components, in addition to boundary scan, vectorless test techniques, as well as In-System Programming techniques.

Computer Aided Design (CAD) Data

Abtest offer the facility of being able to process CAD data files if available, by using a CAD translation software package such as Alchemist / D2B. This enables the engineers to produce accurate test programs and fixtures with reduced lead times.

Test Xpress

Abtest caters for Opens Xpress hardware and software, along with Junctions Xpress. These test techniques can be implemented to improve test coverage as required.

Panel Test

We have the facility to develop programs for panellised boards utilising the TERADYNE GR panel test software.

Installation

During installation, it is our policy to run a batch of production boards through your tester to ensure stability of both fixture and program.

Documentation

Test package documentation will be supplied with the fixture and test program. This will contain testability reports giving an overall percentage test coverage, fixture specifications, wiring lists, schematics, parts list of any hardware inside the fixture, audit and risk assessment reports.

Onsite support

Abtest can provide a test engineer at your site for engineering support, such as implementation of Eco's.

Design review

Abtest can offer a design review facility, where we will proof your design for testability supplying a testability report highlighting such things as nodal access, test pad size and tooling issues.

Model Shop/Tool Room

This facility with Computer Numerical Control (CNC) and graphic enhanced machine tools is also available. We design and manufacture a wide range of products. These include Prototype Models for customer exhibitions, test equipment for use in automotive and computer industries, fixtures can be linked to computer controlled data analysers designed and built by our Engineering facility. General tool room work can also be offered with fast delivery turnaround.



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