TAKAYA APT

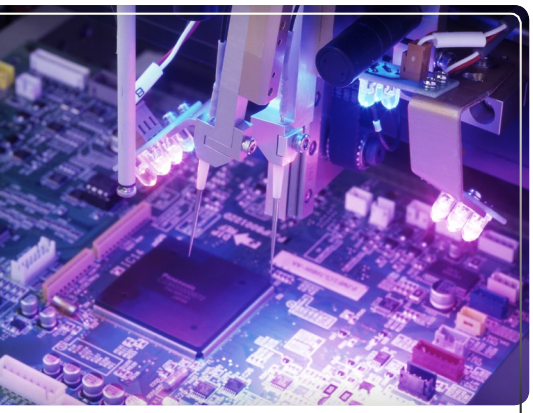
GOEPEL electronic's Boundary Scan Integration for TAKAYA Flying Prober

- **Officially certified system integration** between TAKAYA and GOEPEL electronic up to 80 MHz
- **Increased test coverage** through SYSTEM CASCON's flying probe test
- **Easy data export** from TAKAYA's system to GOEPEL electronic's Boundary Scan software
- **Fully automated interaction** between top/bottom probes and Boundary Scan
- **SYSTEM CASCON™ controls** optimised and safe **probe** travel
- **"Repeat function"** – repetition of mis-positioned tests, minimisation of false calls
- **Analogue measurements** with SYSTEM CASCON for e.g. D/A converter tests
- Missing **test access** – enhanced through **probes**
- **Elimination of redundant** flying probe **test steps**
- **Fast** error recovery **system diagnosis**

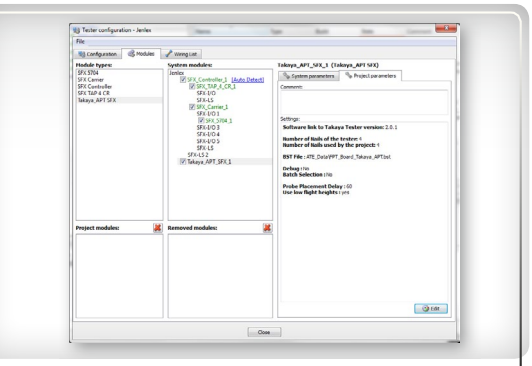
GOEPEL electronic

Get the total Coverage!

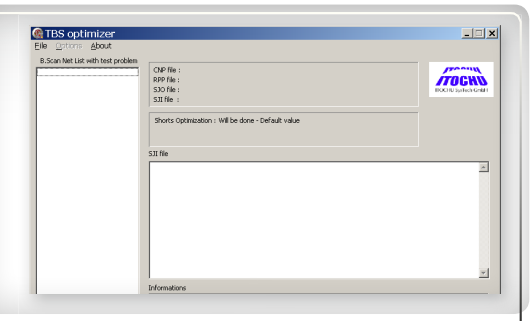
ITAG/Boundary Scan
TAKAYA and GOEPEL electronic



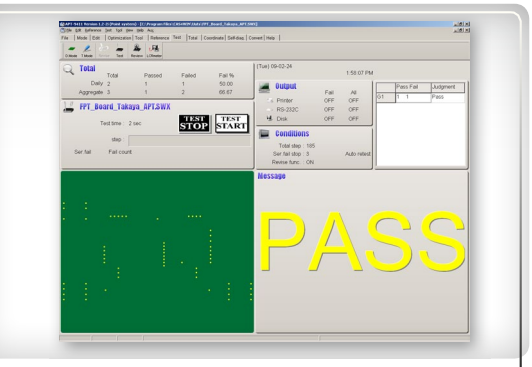
Prober contacting



CASCON test system configuration



TBS-Optimizer for redundancy removal



APT-Software including Boundary Scan

GOEPEL electronic provides a professional Boundary Scan option particularly for the Flying Prober TAKAYA APT. In an automated production process this integration offers critical advantages over classic stand-alone solutions. Fully automatically controlled interaction between Flying Prober and Boundary Scan results in an increased test coverage. The automated generation of the flying probe test is based on APT test point data export.

During a test run, the contacted probe acts as an additional, virtual Boundary Scan cell, e.g. enabling the detection of a non-soldered pin which is only connected with a connector. Such faults cannot be detected by one of the individual test systems but by their interaction within the system integration.

The "Repeat Function" allows for repeated test execution at badly contacted nets. Test developers may determine a maximum number of additional contacting attempts, in which only faulty nets are to be repeatedly tested.

Based on SYSTEM CASCON's analogue measurement capabilities also voltage measurements can be performed within a CASLAN test to run e.g. D/A converter tests.

Elimination of redundant flying probe test steps cuts down test time at the Flying Prober. ITOCHU SysTech's TBS-Optimizer can remove nets from the APT test procedure which are already covered by the faster Boundary Scan test.

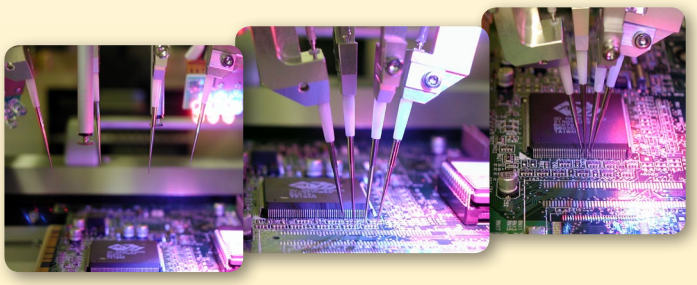
ITOCHU SysTech GmbH

The result of the Boundary Scan test is shown as Pass/Fail message on the APT results window. The detailed error report is stored in a plain text file.

The system integration is supported by APT-Software 1.3 and SYSTEM CASCON 4. GOEPEL electronic provides complete integration packages of various levels, differing in hardware performance and software options. Each integration package contains the SCANFLEX® controller SFX/PCI 1149 and a SFX-TAP4/CR. The "advanced" version additionally includes a SFX-Carrier5 with an I/O module SFX-5704 for the control of probes during interactive tests.

The SCANFLEX principle enables optimised signal quality for test frequencies up to 80 MHz under ideal conditions. This provides the basis for future test technologies like VarioTAP® or ChipVORX® to be effectively used with the ATE system. In addition, each package includes the "CASCON for TAKAYA-APT" installation, a demo reference board and a one-year maintenance contract for hardware and software.

Many developers and manufacturers of electronic products have already enhanced their production system with this system integration package.



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ISO 9001 certified

GOEPEL electronic GmbH
Goeschwitzer Straße 58/60
07745 Jena / Germany
Tel: +49 (0) - 36 41 - 68 96 - 0
Fax: +49 (0) - 36 41 - 68 96 - 944
Email: sales@goepel.com
Internet: www.goepel.com

Authorised Distributor:

Accelonix keeping you ahead.

Accelonix BV
Luchthavenweg 18b • NL-5657 EB •
Eindhoven • The Netherlands •
T: +31 40 750 1650 • E: info@accelonix.nl

sales@goepel.co.uk sales@goepelusa.com sales@goepel.asia sales@goepel.fr

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