

JTAG TECHNOLOGIES SYMPHONY INTEGRATION SOLUTION FOR TAKAYA APT XXX LINE

Boundary-scan solution for flying probe



Takaya Symphony Highlights

- Integration solution for Takaya and JTAG Technologies
- Supports all flying probe test systems (APT xxx) from Takaya
- Full access to the four flying probe heads
- Fast integration of the boundary-scan hardware direct in the system
- Simple test program creation and debugging using JTAG ProVision™
- Optimized transfer of Merlin pro™ data into ProVision™
- Familiar integration of boundary-scan tests using Takaya user interface including error application diagnostics
- An increase in test coverage while reducing adapter costs

The impact of modern designs

Increasing functionality while miniaturizing the components on PCBAs dictates the use of cutting edge component technologies such as Ball-Grid Arrays (BGAs) or Chip-Scale-Packages (CSP). The number of physical access points is thus greatly reduced which in turn results in reduced test coverage for established testing procedures such as In-Circuit Test (ICT) and Flying-Probe Test (FPT).

Adding JTAG/Boundary-scan

The integration solutions offered by JTAG Technologies make it possible for users to get the most out of their existing ICT/FPT systems while adding a new test dimension - JTAG/boundary-scan. This method provides increased error coverage and improved diagnostics, while reducing costs for highly complex designs.

The Symphony package for APT xxxx was created by JTAG Technologies together with Takaya's development team and offers a unique architecture - combining the advantages of both boundary-scan and FPT. The combination of test strategies results in increased test coverage and offers a drastic reduction of the debugging time in the FPT. What's more the data needed to position the flying probe head can be acquired by JTAG ProVision directly from the Takaya's Merlin pro™ software.

Image 1, shows the flying probe system APT 1400F from Takaya. On the right the JTAG Controller including QuadPod for integration in the Takaya system.

Supported Systems:

FPT: APT-820S, APT-9411CE, APT-9600CE, APT-1400F

Overview Symphony Takaya Package:

Hardware

- JTAG Controller :- JT3707/TSI

Software

- JTAG Technologies software for performing boundary-scan tests including actuation of the flying probe heads (FPT) of the Takaya System.

- boundary-scan diagnostics for error analysis at pin level and transfer to the ICT/FPT system.

- Inclusion of the JTAG error/status notifications using Takaya software.

- Permanent node locked License incl. Sentinel USB Key

Please request the Takaya system requirements with indication of the serial number.

ProVision therefore has the full information required to automatically generate tests incorporating the hybrid pins e.g. infrastructure, interconnect, logic-cluster and memory-cluster connection tests. This allows fast and simple implementation even for mixed signal

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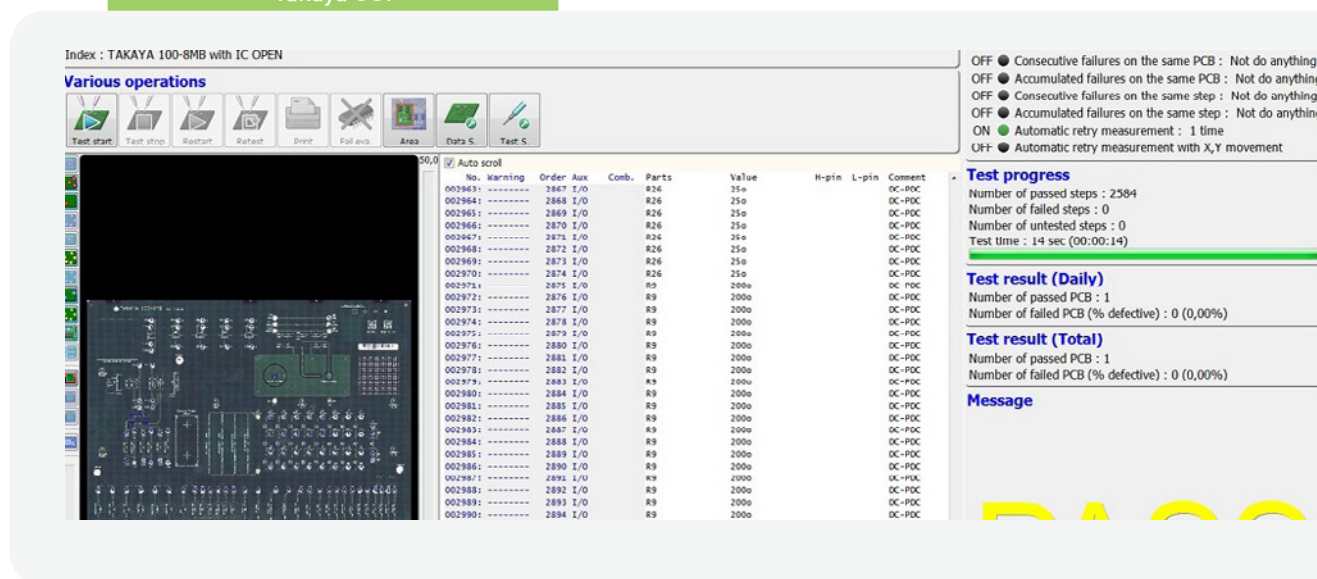
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designs in which the resources of both systems are required.

Following debug on JTAG ProVision the developed tests are integrated in Takaya's run-time software, also allowing full boundary-scan test diagnostic reports to be included.

The JT3707/TSI boundary-scan controller hardware plus JT 2147 interface pod have been specially adapted for use in Takaya systems and insert directly in the system rack. Up to 4 JTAG TAP Ports are available allowing a high board throughput. Furthermore the 4 flying probe heads can be used to extend the boundary-scan test where needed.

Takaya GUI



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