



The Test Connection, Inc. **GETTING TO THE POINT**

WWW.TTCI.COM

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Board Test Using Flying Probe 2



The Test Connection, Inc.

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Printed Circuit Boards' Production Test Using Flying Probe Technology TTCI's Solution to Save Time and Money

Do you have new printed-circuit-boards that need testing fast, and at lower cost?
The Test Connection, Inc. (TTCI) has a solution.

1. If the quantity of production boards is small, between one and 500 hundred, then Flying Probe is the solution. TTCI offers a fast turn-around on writing a test program in just a couple of days and starting board test.
2. Then after the test program is complete, TTCI has the Digitaltest Condor XL, which is the best and most accurate flying probe system on the market. PC boards can be tested and completed in one or two days and shipped back to our customer.
3. Each board that fails has a test failure ticket and, for the complete lot, a test log that references the serial numbers for both failing and passing boards with a summary of the faults. A TTCI test engineer verifies each fault. Most failed boards can be returned to manufacturing for repairs and do not have to be returned to TTCI for re-test; as an option, repaired boards can be returned and retested. Boards that have simple faults do not have to be returned to TTCI, as most faults are isolated on the PC board and do not require retest. However, some customers do like to retest their boards. Retesting the boards is recommended when there are faults that may have masked other faults.
4. By performing system or functional test only on boards that have passed flying probe or in-circuit test, fallout at the system level is greatly reduced. This allows system test engineers to concentrate on resolving system and design problems as the production based faults will have already been eliminated.
5. The Digitaltest Condor can hit much smaller targets on a PC board compared with an in-circuit tester using a bed-of-nails fixture. The design of the Condor and its software greatly increases node access, allowing full test on boards that would only have only a limited test with an in-circuit tester. The bed-of-nails fixture and test program often takes 3 to 4 weeks to design and build, with a cost of 3 to 5 times the cost of a Digitaltest Condor flying-probe test program.

6. By using the Digitaltest Condor and The Test Connection, Inc. (TTCI), test techniques for new product can be brought to market faster, with reduced cost, and better Quality.
7. ECNs can be incorporate quickly and at a low cost for the next production run.
8. For some additional cost, if needed, we can add Boundary Scan test.
9. TTCI has been in the PC board Test Engineering business for over 29 years and understands OEMs and CMs problems.

From the President's Desk

Bill Horner

Bill Horner



The Test Connection (TTCI) Also Has The Following Test Equipment:

3 Teradyne/GenRad 228X testers,

Agilent 3070 dual boot tester

**Functional InterFUN 2700 Test System with NI PXI, Led Analyzer and
Digitaltest In-Circuit tester**

IC FlashRunner microcontroller programming imbedded in test fixture

We also do Test Strategy Consulting and Testability Reviews.