

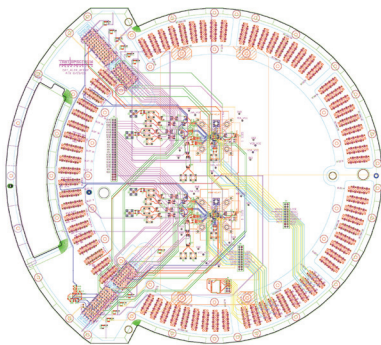
# TEST SPECTRUM

## TEST HARDWARE

A critical element of every test solution is the interface between device and tester. The hardware team at Test Spectrum has produced thousands of successful test interface solutions for some of the most challenging semiconductor products. Our in-house team of PCB design experts has an added advantage of direct access to our senior test engineering staff.

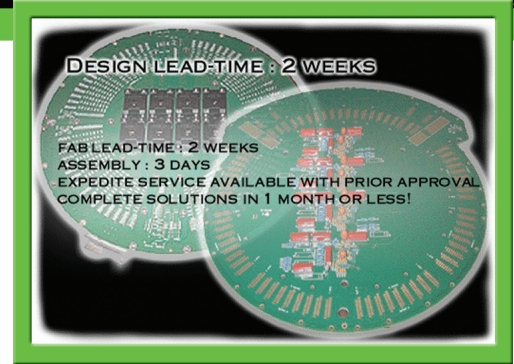
## PCB DESIGN

- Specializing in ATE solutions for widely used tester platforms, including Agilent, Credence, LTX, and Teradyne
- Tailored solutions to meet the requirements of each project in a cost effective manner
- Vast experience with complex applications, including mixed-signal, RF, and high speed digital (up to 10Gb/s)
- Netlist extraction for PCB point-to-point connectivity
- Calculated impedance, capacitance and inductance



## PCB FABRICATION

- Controlled impedance to +/-3%
- Aspect ratio to 30:1
- Specialized materials as required
- Blind vias, buried vias
- DRC for manufacturability
- Electrical test for impedance and continuity



## HARDWARE ASSEMBLY

- Procurement & installation of all load board components, cables, connectors and stiffeners
- Sockets for high volume production or engineering evaluation
- Cantilever & shelf-build probe needle solutions
- Support for advanced probe requirements, including vertical and membrane probe

## PROVEN PERFORMANCE

Test Spectrum's track record of delivering world class hardware solutions is best described by our customers themselves:

*"I just wanted to tell you that we hooked up the receiver boards on Wednesday and they worked very well. I am quite impressed with your work and I do see a relationship building . . . See the eye patterns attached. I will keep in touch . . ."*

A Test Spectrum customer referring to the quality of a 10Gbs solution, as evidenced in this eye diagram

