



## PCLBA (Probe Card Load Board Assembly)

### Innovative Design Combines Test Interface and Boards into a Single Package



*Probe Card Load Board Assembly*

Mixed signal test platforms require the load board to be changed nearly as often as the probe card. The Xandex PCLBA design (Probe Card, Load Board/Interface Assembly) incorporates the existing load board and stiffener, the interface tower, and the probe card and stiffener into one compact assembly, which attaches directly to the tester.

This tightly integrated package ensures proper alignment of Pogo™ pins to both the load board and the probe card, ensuring accurate signal transmission. Touch Memory modules mounted on the Probe Card and on the Load Board allow for dynamic storage and retrieval of data about these components and their usage. This solution provides cost-effective time savings because there is no requirement to purchase new cards or associated hardware.

Combined with Xandex Kinematic Docking, the Xandex PCLBA eliminates deflection and misalignment caused by uneven docking forces, resulting in improved throughput and performance.

### Features and Benefits

- ▶ No need to undock test head to swap out probe card and/or load board
- ▶ Tightly integrated package ensures proper alignment of Pogo™ pins to both the load board and the probe card, thus ensuring accurate signal transmission
- ▶ Does not require dedicated manipulator at work cell - reduces floor space requirements
- ▶ No prober “head plate” or “ring carrier” required - allows for reduced length of signal path between pin electronics and DUT
- ▶ Mechanically robust
- ▶ PTI is an easily separable part of the PCLBA - easy to maintain; individual spring contact pin tips are easily replaced if damaged
- ▶ Lowered maintenance costs resulting from less docking/undocking and less operator handling of delicate interface components