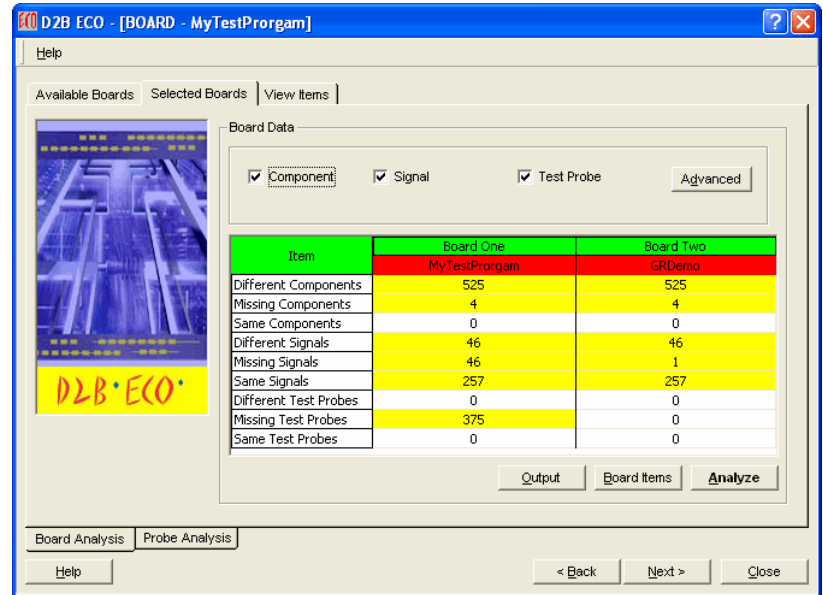


# D2B ECO

## Design-to-Build (D2B) - Identifies Differences Between Printed Circuit Board Assembly Revisions

### KEY FEATURES

- Rapidly compare two CAD layout designs for differences
- Identify impact of new board revisions quickly
- Provides user-friendly graphical and text-based reporting
- Extensive user controlled searching rules enable quick searches for critical data
- Integrates seamlessly with Teradyne's Design-to-Build (D2B) Software



D2B ECO allows users to compare two revisions of a PCB assembly, performing checks for added, removed, or modified components

### Overview

Change is constant. Change is essential. Change is unavoidable. There is no more fitting example of the dynamic nature of change than in the world of electronics. The rapid evolution of technology, combined with constant pressure to reduce costs through process improvements, has made the ability to manage change, and capitalize on it, critical to achieving success in the electronics industry.

Engineering change orders (ECOs) are as common as silicon and solder to electronics manufacturers. Teradyne's D2B ECO™ software module allows electronics manufacturers to quickly implement ECOs, and to understand the full extent of design changes automatically.

### Simplified Deployment of ECOs

D2B ECO is part of Teradyne's industry leading Design-to-Build software suite, a fully integrated set of tools that greatly improve nearly every aspect of the electronics design-to-build manufacturing processes. This software application eases the roll out of new revisions into manufacturing. D2B ECO gives the user the ability to compare two revisions of the same printed circuit assembly (PCA) by performing various

checks on each board to see if components, signals, and test probes have been added, removed or modified between the two revisions. After the comparison has been completed, the application generates a report showing the differences.

D2B ECO can compare numerous component, signal, and test probe difference checks between the two boards and report any additions, changes, or deletions found. Multiple configurations can be saved for future use. The user can also perform both physical and electrical checks between the two boards. This makes it easy to find out if components changed or moved, or if values changed. The user is then armed with information needed to perform an ECO, and has the flexibility to select which two PCA designs to compare, if more than two designs are loaded into the manufacturing system.

Previously, it was necessary to manually compare schematics and parts lists to fully comprehend the magnitude of each new revision. But, D2B ECO quickly summarizes all revision changes, eliminates the potential for overlooking key changes during a manual design review, and makes it possible to release new designs to manufacturing much faster than ever before.

## Design-to-Build Software Suite

The Teradyne D2B™ software module framework addresses all the data preparation activities that drive the assembly, inspection and test processes on your PCA manufacturing line. Teradyne D2B software solutions provide a GenCAM (IPC-2510) standard-based architecture with the ability to view and edit design data, perform testability analysis, develop optimized distributed test and inspection strategies, view schematic diagrams and generate programs for assembly, inspection and test equipment. Teradyne's leading edge D2B (Design-To-Build) software solutions were the first in the industry to receive GenCAM certification.



Teradyne's Design-to-Build (D2B) modular framework



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