CAMCAD Manufacturing

D A T A S H E E T

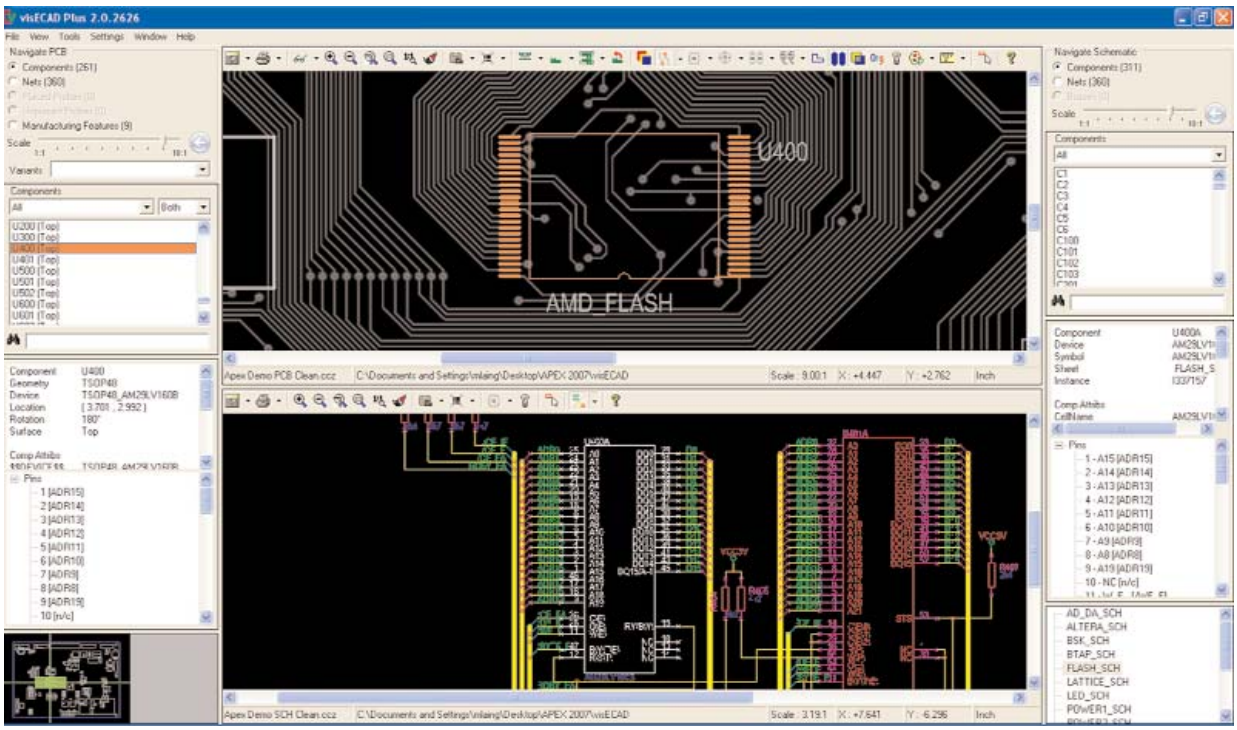

Figure 1: Shows the collaborative viewing and cross-linking between layout and schematic.

Introduction

The CAMCAD manufacturing flow provides a correct, complete and intelligent product description for use in PCB manufacturing. This flow spans the product lifecycle, enables collaborative communication, streamlines process development and supports manufacturing initiatives, all of which improve customer profitability.

The best design is worthless if you can't manufacture it. CAMCAD Manufacturing creates a clean manufacturing data flow from design through manufacturing and on to the final customer.

The CAMCAD Manufacturing flow supports all major ECAD data formats. All the benefits of the CAMCAD Manufacturing flow can be realized with all major ECAD data formats. However, when combined with Mentor Graphics design flows the additional benefits of design through manufacturing collaboration, including intelligent feedback to the design tools, are achieved.

Major product benefits:

- Full support for Design Anywhere, Build Anywhere
- Seamlessly transition product information from Design to Manufacturing
- Create knowledge feedback path from Manufacturing to Design
- Eliminate duplicate efforts
- Eliminate errors and inconsistencies in product data
- Advanced analysis capabilities pinpoint assembly and test issues

Design Data Preparation

CAMCAD Manufacturing neutralizes all the incoming data files such as CAD, BOM, schematic and Gerber in to a complete data set of all the information required by PCB manufacturers.

Collaboration

With ECAD visualization all necessary people can take part in the PCB design review stage by collaborating with the same data set.

Product Analysis

Once the data set has been created, fast and accurate DFM and DFT analysis can be used to highlight potential manufacturing issues early in the design process. This enables changes to be made that either eliminate or reduce the impact of the issue.

Test Execution

Complete testability reports can be quickly generated on PCBs to determine how much test access can be gained. Support for all major test machines allows the same data set to be used to create the program files that are used on the test and inspection machines.

Assembly Documentation

The same data set file can also be used to create assembly documentation and process specific work instructions. This template based documentation system creates consistent documentation with each board that is manufactured.

Component Library

The multi-dimensional component library provides storage of part, package, centroid and stencil related information that can be easily recalled on future designs.

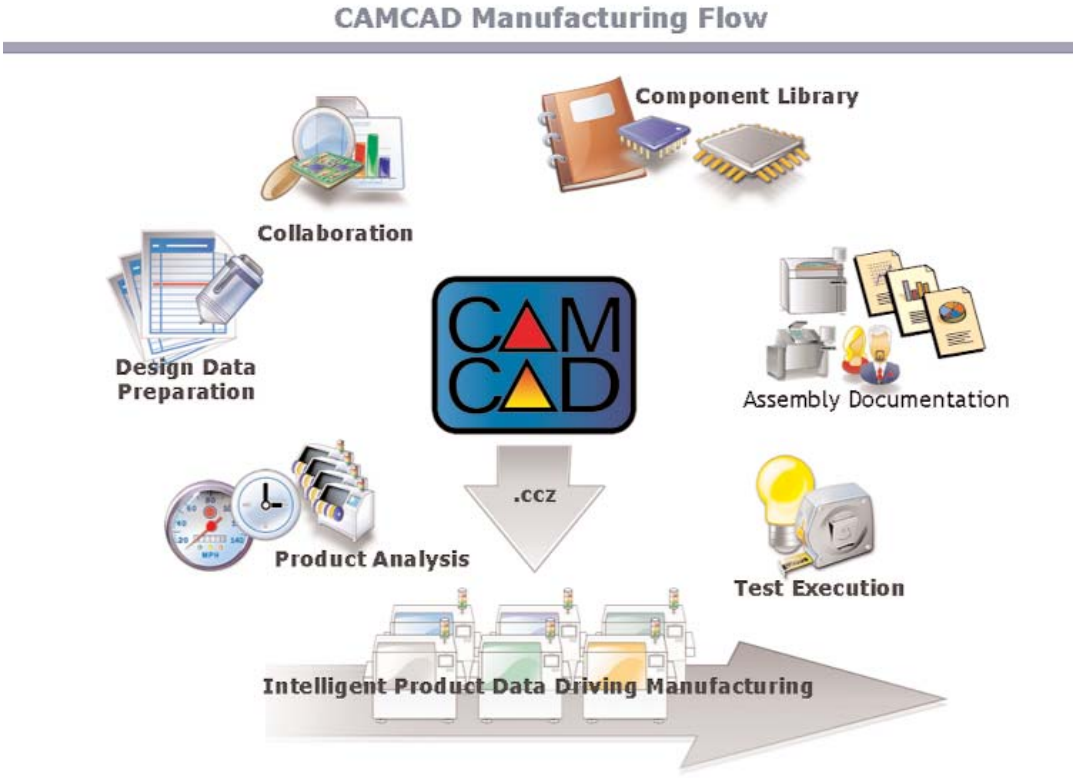

Figure 2: Shows all the modules of CAMCAD Manufacturing.

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