NX Flexible Printed Circuit Design

Designing flexible and rigid printed circuit boards

Benefits
• Uses industry proven design workflows to accelerate the design of printed circuit parts.
• Enables the crafting of printed circuit designs within the context of an assembly to provide confidence that all printed circuits will fit the design.
• Enables users to design rigid printed circuits so that flexible circuits can then be flattened for export to an ECAD system.

Features
• Provides an intuitive user interface, making it not only easy to learn, but also powerful.
• Becomes part of a full MCAD/ ECAD workflow, supporting the design of PCBs from beginning to end.
• Checks PCB models for clearances and tolerances and transfers them to an ECAD system for further refinement.

Summary
NX™ Flexible Printed Circuit Design software provides an environment that facilitates the design of both flexible and rigid printed circuits. Based on workflows common to the design of printed circuit boards, NX Flexible Printed Circuit Design helps designers model printed circuits rapidly and accurately in the context of an assembly.

Basic functionality
Development of printed circuits in today's products is an increasingly complicated process. Products continue to get smaller, and part tolerances continue to shrink accordingly. Electronic manufacturers must employ the right tools for designing flexible printed circuits to ensure that the physical properties of the circuit work with rest of the product. NX Flexible Printed Circuit Design from Siemens PLM Software is well suited to the complex landscape of current printed circuit design.

NX Flexible Printed Circuit Design provides an intuitive user interface so that new users can easily learn to use the software, while veteran users can quickly leverage its power. When paired with a data translation system such as NX PCB Exchange, the system becomes part of a full MCAD/ECAD workflow solution, supporting the design of printed circuit boards from beginning to end.
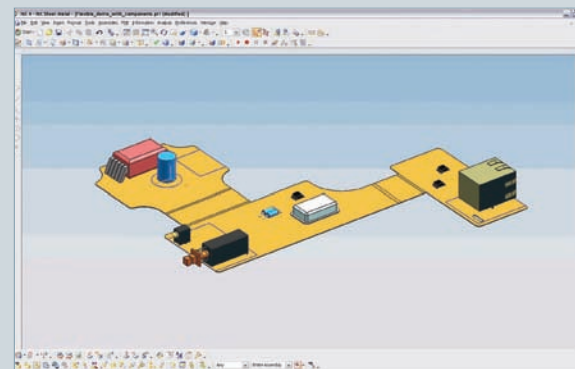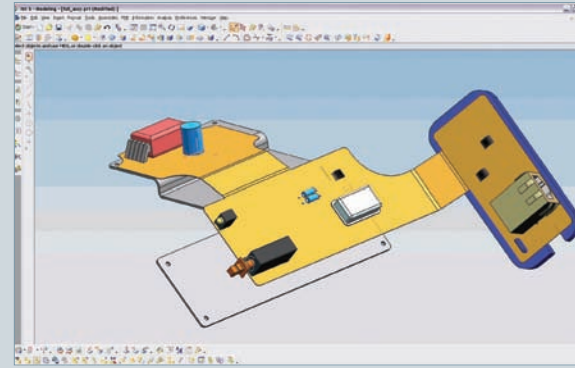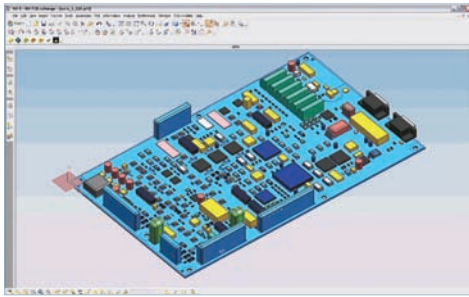
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NX Flexible Printed Circuit Design

NX Flexible Printed Circuit Design is a native NX application that enables the design of flexible or rigid printed circuits using an intuitive workflow. Not only can product designers develop printed circuits in the context of an NX assembly model, they can also flatten flexible printed circuits and send the outlines to manufacturing or to an ECAD system for further refinement. The printed circuit model developed in NX can be checked for clearances and tolerances, and then the finished board model can be transferred to an ECAD system for further refinement, such as component placement or circuit trace or layer development.

Designs that were once difficult – if not impossible – to create are now easily possible using NX Flexible Printed Circuit Design. Designing flexible printed circuits was formerly a very labor-intensive process, with separate workflows for designing the formed 3D part and its flattened representation. In contrast, NX Flexible Printed Circuit Design significantly reduces effort and accelerates time-to-market for electronic products.