

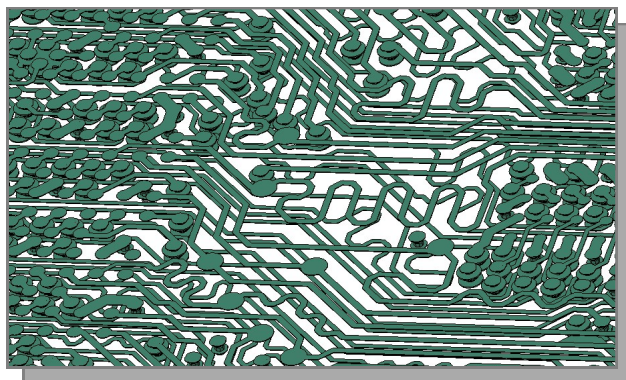
# Experience the Power of Insight!

sherlock  
AUTOMATED DESIGN ANALYSIS™

## Introducing Sherlock Automated Design Analysis™ Version 4.0

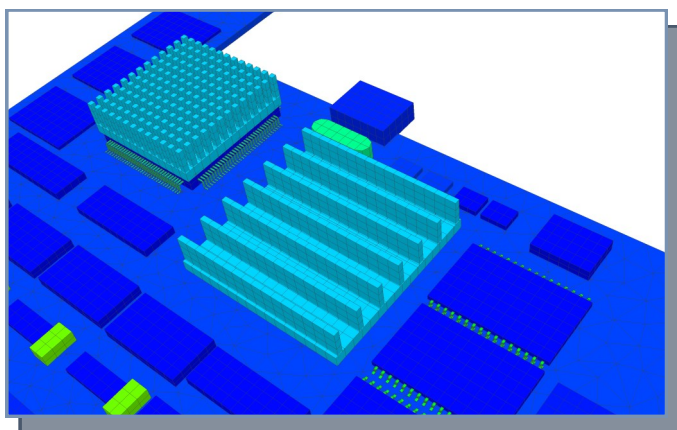
Sherlock Automated Design Analysis software is radically changing how companies bring electronics to market. Design, qualification, and manufacturing processes are accelerated and streamlined, saving significant time and money.

The most revolutionary new feature of Sherlock 4.0 is the power to automatically and accurately model **every feature**, including every trace, power/ground plane, via, bond pad, cutout, lead, and heatsink. Additional new-to-market capabilities include a deeper integration with Abaqus FEA tools and shock scoring.



Sherlock Modeling of Board Traces

Sherlock's **Lead Modeler** and **Heatsink Creator** now enable the user to automatically specify attach methods, lead structures and heatsink architecture for all electronic parts. These two new features along with the new **Shock Scoring** empower engineers to assess performance of electronics that are subjected to repeated shock, such as door and trunk-mount electronics in automotive applications, mobile devices such as smart phones, and wearable electronics.



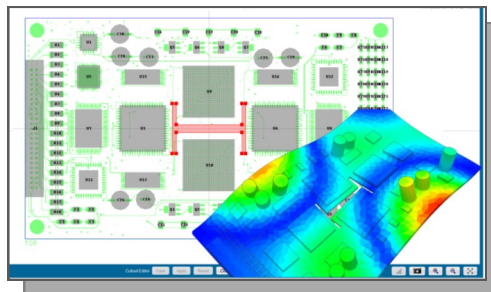
Sherlock Modeling of Heatsinks and Leads

The combination of **Substrate Trace Modeling** and a deeper integration with **Abaqus** is a powerful enhancement to the Sherlock software. This one-two punch allows for more rapid and detailed modeling of all substrate features, providing thermal/mechanical simulation teams much deeper insight into challenges with next-generation semiconductor packaging, such as coreless substrates, ultra-thin BGAs, stacked microvias, and 3D packaging.

With the updated **Cutout Editor**, Sherlock now

automatically recognizes cutouts based on routing instructions in ODB. Still using Gerber?

No problem. The cutout editor supports polygon editing, which allows for complex cut shapes and the merger of multiple cutouts into larger cutouts.



Sherlock Modeling of Cutouts

## Additional new features introduced in Sherlock 4.0 include:

- Harmonic / Random Vibe for lead modeling
- Shock score algorithm for different solder types
- Copper and laminate layers can be defined with an image file instead of EDA layer file
- Report Updates
  - User-defined summary section
  - Support bold and italics tags in Report.xml
- Parts validation fixes (case-insensitive units, only on valid properties for selected part)
- Documentation Updates

## Sherlock System Requirements

Sherlock requires the following minimum hardware and software requirements:

### Hardware Requirements

- Processor – Multi-core x64 Intel or AMD processor
- Memory – 4GB minimum, 8GB preferred
- Hard Disk Space – 200 megs for installation and 4 gigabytes project space.

### Software Requirements

- 64-bit versions of Windows XP, Windows Vista, Windows 7, or Windows 8
- Java 1.6 Runtime Environment
- Windows .NET Framework 3.5 SP1
- Adobe Reader 8.x or higher or similar PDF viewer
- Microsoft Visual C++ 2008 Redistributable Package (for use with FlexNet licensing only)

### Optional Software Requirements

The following may also be used with additional Sherlock license features enabled:

- Abaqus
- Ansys® Mechanical Classic
- Ansys® Workbench™

### Supported FlexNet License Servers

- 64-bit versions of Windows Server 2008, Windows Vista, and Windows 7
- 64-bit versions of Red Hat Linux on x86 that are Linux LSB certified, such as Red Hat Enterprise Linux and CentOS (not including SUSE Linux).

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