Introducing SHERLOCK for SOLIDWORKS® 3D CAD

What do you get when you combine SOLIDWORKS Simulation Solutions with Sherlock Version 6.0? Unmatched insight into the interaction between electronics components and mechanical designs under real-world conditions, resulting in fewer design cycles, better designs, and improved safety and reliability.

Reliability Physics Analysis meets FEA

With the new Sherlock for SOLIDWORKS 3D CAD Integration software, mechanical and electronics designers and engineers can now quickly and easily predict the reliable lifetime of entire PCBAs (Printed Circuit Board Assemblies) all in one tool, before a product is ever built. The Sherlock for SOLIDWORKS 3D CAD Integration tool is the only CAD to CAE solution on the market that provides reliability physics predictions of an entire PCBA.

SHERLOCK Users: Sherlock users can now use just one tool to seamlessly import complex 3D objects into their designs and gain actionable information about how mechanical structures, like enclosures, batteries, thermal solutions, chassis, displays, and stiffeners influence and affect the robustness of electronics exposed to thermal and mechanical loads. This is vital for simulating circuit card assemblies as close to reality as possible and improving overall product performance.

SOLIDWORKS Users: SOLIDWORKS users can improve their overall designs by addressing the safety and reliability of the electronics that are increasingly becoming integral to new product development.

Other FEA Users: With this version of Sherlock, users of other FEA tools can quickly and easily import all housing and custom parts into Sherlock and run FEA simulations directly in Sherlock, saving considerable time and resources. Even non-FEA experts can easily build complex assemblies and complete complicated reliability analyses.

See back for additional features available in the new Sherlock Version 6.0!
ADDITIONAL FEATURES AVAILABLE IN SHERLOCK 6.0:

Laminate Glass Style Construction
Sherlock’s stackup editor has been modified to allow for the selection of glass style construction and fiber material properties for each laminate layer. This allows a more accurate determination of the overall material properties used during FEA analysis for the selected laminate.

Parts and Analysis Customizability
Sherlock allows the seamless input of test data to provide more accurate reliability predictions. For those who want more control over their analyses, these enhancements give them that flexibility.

Life Cycle management, ODB++ Archive Support
Due to the need to meet the challenges of complex environmental conditions, Sherlock now allows more options to easily create more complex Life Cycles and Assemblies.

Thermal Mechanical Boundary Conditions
Mount point displacements are now included in FEA analysis input files when using thermal loading to approximate the expansion of material to which the mount point is mounted. This feature is critical to an improved understanding of thermomechanical behavior at the system level.

To learn more about how Sherlock 6.0 can solve your design issues, call 301.474.0607

Learn more about Sherlock at dfrsolutions.com/what-is-sherlock

Get your free trial at dfrsolutions.com/resources/sherlock-free-trial-lp