

Simberian Announces Update Release of Simbeor 2007

The updated version includes several unique capabilities such as synthesis of impedance-controlled via-holes for high-speed channels

Seattle, WA – August 31, 2007 – Simberian™, Inc., a developer of leading edge electromagnetic software for high-speed and high-frequency electronic design automation, announced today the new update release of Simbeor™ 2007. The latest release provides unique and innovative software capabilities that help PCB and package designers to deliver the next-generation electronic products in less time.

New in Simbeor 2007 are via-hole creation wizards with the effective impedance estimation for differential via-holes. The differential wizard allows synthesis of differential via-holes geometry for impedance-controlled high-speed channels. After the via-hole structure is created, Simbeor extracts broadband full-wave S-parameter model without any additional steps. Design of multi-gigabit data channels is practically impossible without 3D full-wave models for via-holes and building impedance-controlled vias enables reliable transmission of data with higher bit rate over longer distances.

Simbeor 2007 now enables simulation of conductor surface finish with multilayered metal. Some surface finishing processes use metals such as Nickel with parameters that can significantly degrade signals. Simbeor is the industry-first tool that can extract broadband modal and per unit length parameters of transmission lines and multiport parameters of discontinuities for planar structures plated with any number of metal layers. Surface roughness can be also accounted for.

Features in Simbeor 2007 software now include:

- *Via-hole creation wizards with capability to synthesize geometry of differential via-holes*
- *Simulation of conductor surface finish with multilayered metal and with surface roughness*
- *Automatic de-embedding enables building high-quality models for discontinuities and via-holes*
- *Unique transmission line port calibration algorithm increases accuracy of extraction*
- *Multiple usability enhancements such as automatic meshing of discontinuities*
- *Simbeor support Knowledge Base has been opened at www.kb.simberian.com*

New version of Simbeor 2007 has successfully passed all tests suggested by J.C. Rautio for benchmarking of electromagnetic software. On the strip line standard test Simbeor delivers accuracy 0.1% in a fraction of a second.

For additional information on Simbeor 2007 software, please visit www.simberian.com



Pricing and availability

Simbeor 2007 runs on any computer with Pentium, dual-core or quad-core processor, Windows 2000/XP and compatible OS. Simbeor features are united into two license levels. ***US list price for annual node-locked license with Level 1 features is \$4,500 and with Level 2 features is \$7,500. Network or floating licenses are also available.*** To ensure customers' success, Simberian offers free online webinars and training classes, technical product support. Software updates are also included with the annual license of Simbeor 2007. For more information on product pricing and availability, contact Simberian at info@simberian.com or +1-408-627-7706. Download Simbeor 2007 for evaluation from www.simberian.com.

Company Information

Simberian, Inc. is a developer of leading edge electromagnetic software for the high-speed and high-frequency electronic design automation. Simberian goal is to build ***advanced, easy to use, and affordable*** electromagnetic software, while addressing the critical needs of the interconnect developers. Simberian mission is to help our customers worldwide to push performance limits of high-speed PCBs and multilayered packages to shorten product time to market achieving design objectives more cost effectively and efficiently.

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