

## Simberian News | December 22, 2011

...from Simberian Inc.

Welcome to the latest edition of Simberian News!

**Simbeor 2012 is here...**

We are happy to announce that Simbeor 2012 is now available for our customers and evaluation. Simbeor software won prestigious DesignCon DesignVision award two times. Simbeor 2012 further increases productivity of signal integrity engineers and is the most affordable electromagnetic tool on the market!

**Here are the highlights of the 2012 release (see the complete list in “What is new in Simbeor 2012” presentation available in [Downloads section](#) of our web site):**

- Geometry import from ODB++ files to fit Simbeor into any design flow
- New multi-variable optimization capability in SiTune tool
- Automatic material parameters identification (dielectric and conductor models, roughness)
- Multi-via objects for tuning and optimization of via-hole geometries with 3D electromagnetic analysis
- Linear circuit optimization to fit measured parameters or compliance goals
- Direct P3D via-hole circuit geometry optimization
- Portable multi-pole Debye model defined with poles and residues
- Anisotropic dielectric model for accurate analysis of via-holes
- Modified Hammerstad and Huray snowball models for conductor roughness
- Direct TDR/TDT analysis without building rational macro-models
- Automatic computation, plotting and output of 9 common compliance metrics (IL, RL, FIL, ILD, PSXT, PSNEXT, PSFEXT, CDPSXT, ICR)

See some of the new capabilities in the latest demo-videos #2011\_04, 2011\_05 and 2011\_06. Final version of Simbeor 2012 will be released at the end of January, 2012. In addition to the highlighted features, it will also have Via Analyzer™ tool to synthesize optimal via-hole and connector launch geometries.

**Simbeor software has been validated with measurements by multiple companies over the frequency band from DC up to 50 GHz.** Results of some projects will be reported at the upcoming DesignCon 2012. Simbeor simply beats the competition when it comes to validation with measurements.

**Download and try Simbeor today**, or let us know if you would like to have an overview and demo of Simbeor at your company site or over the internet.

**Happy Holydays from Team Simberian!**

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