

Simberian News: June 11, 2019

«GreetingLine»

Did you know that Simbeor and COM script is all you need to design PCB interconnects for serial data channels? – see how it works in [demo #2019_07](#). Channel operating margin or COM was recently introduced by [IEEE 802.3bj](#) and [IEEE 802.3bs](#) as a single metric of complete channel performance. It is now supported by other standards committees and some chip vendors. COM scripts, provided by those committees and by chip vendors, include worst-case package signal degradation effects and on silicon equalization options. To evaluate a PCB channel performance with such script, you need simulated S-parameters of the interconnects, that can be effectively computed with Simbeor software. **And no other SI or EM tool is actually needed.**

Simbeor + Matlab or Python solution is ACCURATE, PRODUCTIVE and very COST-EFFECTIVE. Simbeor provides unique systematic approach to design interconnects with predictable accuracy – see more at [webinars #4, #5 and #8](#) and [app note #2018_01](#). COM metric is sensitive to quality and accuracy of the simulated S-parameters and only tools systematically validated with measurements must be used – **do not let inaccurate simulations waste your time!** In addition to the interconnect analysis, Simbeor can be used to evaluate all other frequency-domain compliance metrics based on S-parameters. To improve productivity, Simbeor provides unique post-layout de-compositional analysis and now possibility to automate your design flow with Simbeor SDK with APIs to Matlab and Python (see [demos #2019_01 and #2019_04](#))

Availability: Simbeor THz is available for customers and evaluation at [downloads section](#). Simbeor Complete license includes post-layout de-compositional electromagnetic analysis with quasi-static Simbeor SFS solver and two 3D full-wave solvers – Simbeor 3DML and 3DTF. For more information on product pricing or demo visit our web site www.simberian.com or contact Simberian at info@simberian.com.

Happy Summer Days!
Team Simberian

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