

ViaExpert

Highlights

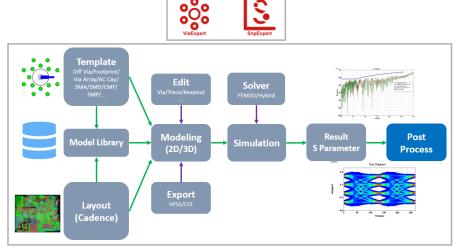
1 Via discontinuities in signal paths have significant impact on signal integrity for high speed designs. A quick way to build via models and then simulate them is essential for SI engineers. ViaExpert is made specially for this purpose.

- To quickly build via models, ViaExpert provides multiple ways including built-in templates, direct layout file import, and a combined flow which takes advantage of both the layout trace breakout and built-in templates.
- 3 To quickly simulate models, ViaExpert deploys two solver technologies, one is a Finite Element Method (FEM) solver, and the other is a hybrid one. Both adopt distributed processing and multi-core parallelization, which adds another level of acceleration.
- Auto port generation simplifies EM analysis setup.
- 5 Parametric sweep and optimization help to achieve design convergence.
- ViaExpert provides export to HFSS for quick benchmarking purpose.

Fast and Accurate Via Modeling and Simulation

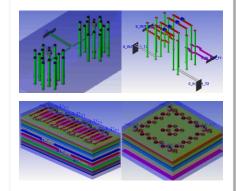
Via Modeling and Simulation in ViaExpert

- Three ways to quick create via model : Modeling from Template ; Modeling from Layout ; Modeling from Library, which is mixed with layout and template model.
- Two solvers :FEM3D solver; Hybird solver , which is faster than FEM3D solver and good for parametric and optimization analysis.
- Easy to edit model, export to third-party projects and explore s parameter in SnpExpert.



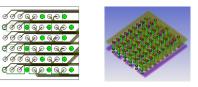
Modeling from Templates

Constructing via related CAD models is hard and time-consuming. ViaExpert's built-in templates come to the rescue.

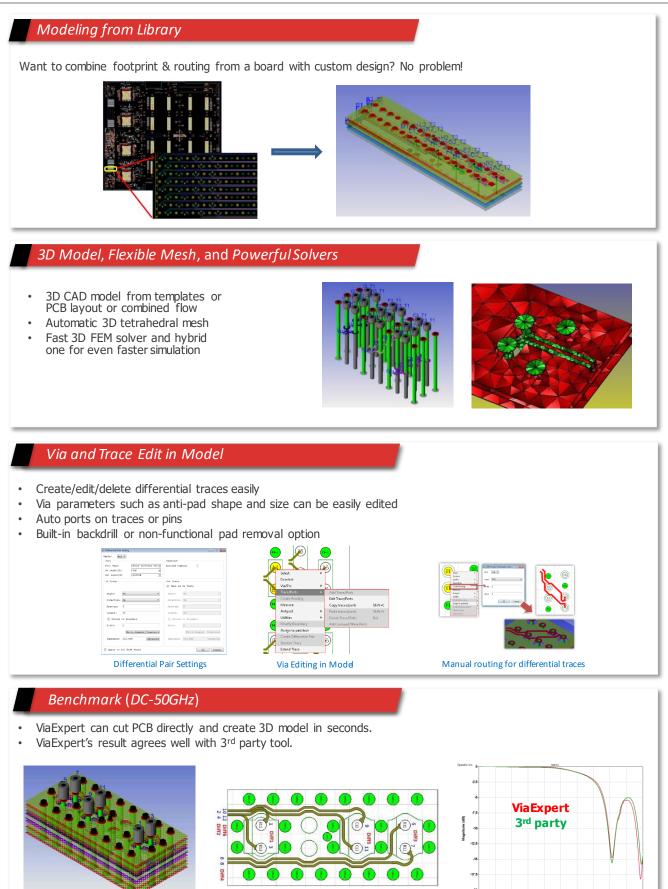


Modeling from Layout

Board or package layout import is made easy. Modifications, tuning, and optimization? Available too!









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