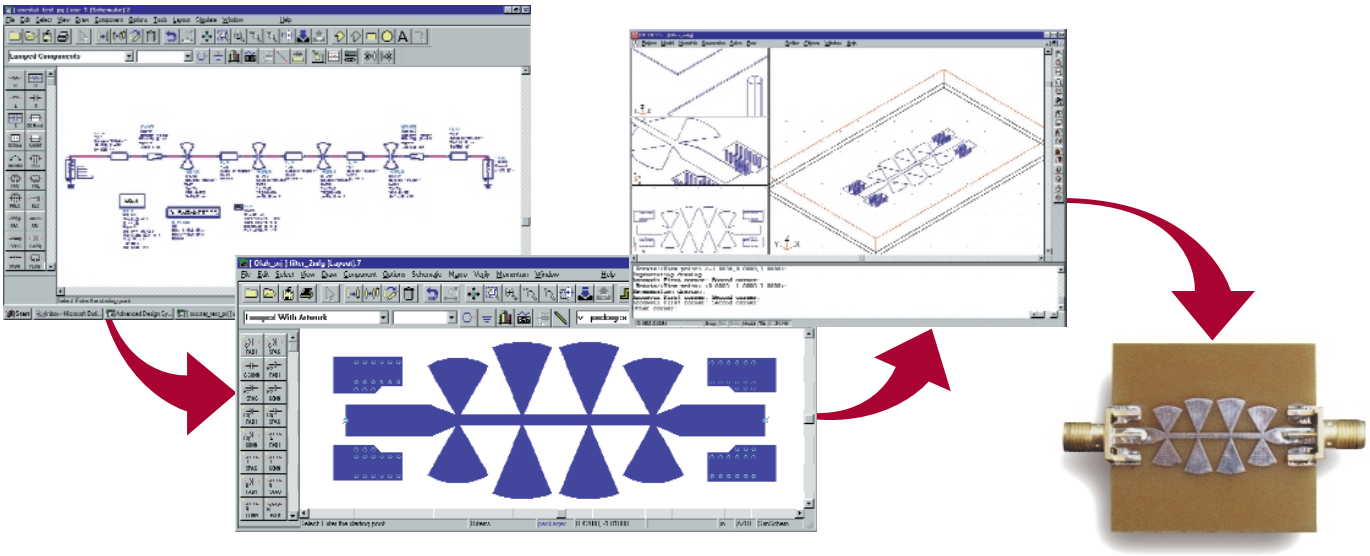
Agilent EM Circuit Designer

Product Overview



A complete EM circuit design solution that takes you from schematic through to manufacturing

Complete Design Flow

To design high-frequency circuits with accuracy and efficiency, you need a complete set of design tools that let you work from concept through to manufacturing. The early stages of circuit design rely on schematic-based simulations and optimization. As the design moves from schematic to layout, you need EM-based simulations for verification as well as design refinement. The EM Circuit Designer from Agilent EEsof EDA offers a complete set of linear circuit and EM-based simulators that take you through the complete design flow from start to finish.

This integrated toolset essentially eliminates unnecessary roadblocks in the design process. The complementary capabilities of the simulators streamline the design flow without time-consuming and error-prone re-entry of the schematic or layout.

Integrating Circuit and EM Design

Agilent EM Circuit Designer includes a complete set of 2.5D/3D electromagnetic design tools, as well as schematic-based linear simulation and optimization. With the right combination of circuit and EM simulation and optimization technologies, you can greatly reduce design time and enhance product performance.

Agilent Technologies

Innovating the HP Way

Agilent Advanced Design System to Agilent HFSS Link

Layout geometries in Agilent Advanced Design System can be simulated with the integrated planar EM simulator, Momentum, or can be translated to Agilent HFSS for 3D EM simulation. The link from Agilent Advanced Design System to Agilent HFSS will translate Momentum projects into complete Agilent HFSS projects. Once projects have been translated to Agilent HFSS, 3D features and characteristics that impact circuit performance can be added to the design.

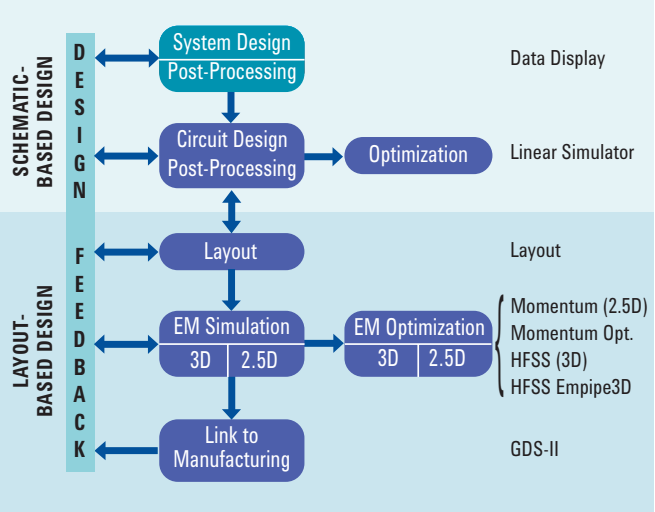
For example, you can use this link to add thickness to planar metal, add coax transitions to microstrip, or add finite dielectrics such as overlays, packages, or dielectric resonators to an otherwise planar circuit.

More Information

For more information or to order Agilent EM Circuit Designer, please contact your local Agilent EEsof EDA sales representative or call 1-800-452-4844 (in the US). You can also visit our website for more detailed product information on Agilent EEsof's EM design solutions: www.agilent.com/eesof-eda

Product Configuration

Agilent EM Circuit Designer is fully expandable with other Agilent Advanced Design System capabilities. It is available in node-locked or network-licensed configurations for all PC and UNIX systems that are supported by Agilent Advanced Design System 1.3.



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Agilent Advanced Design System	**Design Environment** **E8900A/AN**	The graphical environment for the integration of circuit and planar EM simulators. Includes schematic capture, layout, and model libraries.
	Data Display **E8901A/AN**	Graphical display of simulation results, with a full set of plot types, trace types, markers, and annotation.
	Linear Simulator **E8881A/AN**	Analyze DC, small-signal AC, and S-parameter characteristics of the design. Include EM results in the schematic as S-parameter models.
	Layout **E8902A/AN**	Provides the ability to build and simulate circuits directly in layout, as well as providing a link between the schematic and manufacturing.
	GDS-II Translator **E8904A/AN**	This bi-directional translator for layout geometries provides a link to manufacturing.
	Agilent Momentum **E8921A/AN**	Analyze the high-frequency effects of arbitrary geometries embedded in multi-layer substrates. Based on the method-of-moments technology.
	Agilent Momentum Optimization **E8925A/AN**	Geometry-based optimization for Momentum. Automatically varies the user-specified geometry parameters to achieve the optimal design.
Agilent HFSS	**Agilent HFSS** **85180A/AN**	A complete solution for the electromagnetic modeling of arbitrarily-shaped 3D structures, based on the powerful finite-element technology.
	Agilent Empipe3D **E8924A/AN**	Integrated 3D optimization system allows Agilent HFSS to optimize geometric and material parameters. It can be used to design with paramerter tolerances, automated parameter sweeps, and display the response surfaces.

For more information about Agilent EEsof EDA visit:
www.agilent.com/eesof-eda

For more assistance with your test & measurement needs visit:
www.agilent.com/find/assist

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