

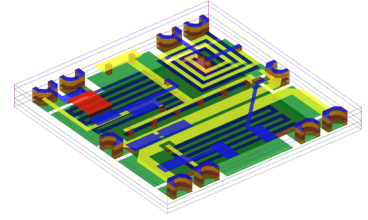
Details and Contact Information

High Frequency Planar EM Analysis Suites from Sonnet Software



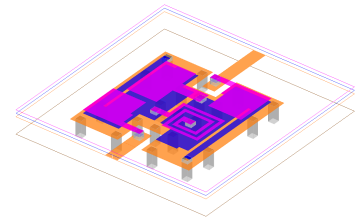
Professional

- Conformal Meshing
- Unlimited memory, ports, dielectrics, signal levels
- Sweep Analysis and Optimization of unlimited parameters
- DXF, GDSII import/export
- Support for UNIX, Linux and Windows



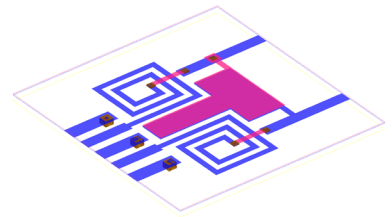
**LEVEL3
GOLD**

- 256 MB Memory Allowed
- **3 signal conductor levels + gnd**
- Up to 8 Port Circuits
- Sweep Analysis of 2 parameters
- Optimization of 2 parameters
- DXF import/export
- Automated User Guided Circuit Subdivision



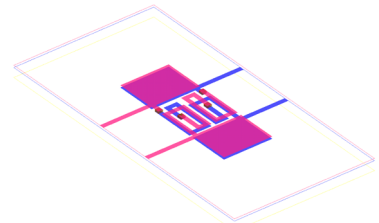
**LEVEL2
SILVER**

- 128 MB Memory Allowed
- 2 signal conductor levels + gnd
- Up to 6 Port Circuits
- Sweep Analysis of 2 parameters
- Optimization of 2 parameters
- DXF import/export
- Automated User Guided Circuit Subdivision



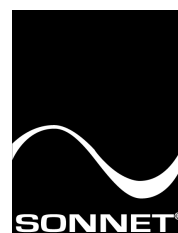
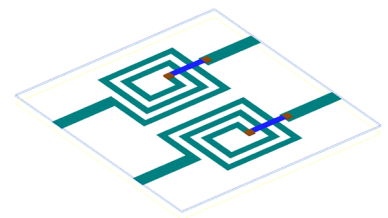
**LEVEL2
BASIC**

- 2 signal conductor levels + gnd
- 64 MB Memory Allowed
- Up to 6 Port Circuits
- Sweep Analysis of 2 parameters
- Optimization of 2 parameters
- DXF import/export



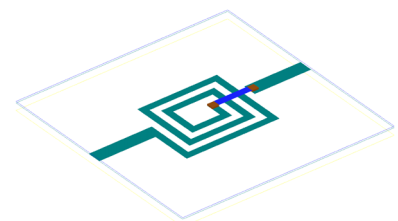
LitePlus

- 2 signal conductor levels + gnd
- 32 MB Memory Allowed
- Up to 6 Port Circuits
- Sweep Analysis of 1 parameter
- Optimization of 1 parameter
- DXF import/export



Lite

- Create, save and analyze arbitrary planar circuits
- 2 signal layers + gnd
- 16 MB Memory Allowed (Registered Copies Only)
- Up to 4 Port Circuits
- Sweep Analysis of 1 parameter
- FREE



Sonnet Manuals



Sonnet Software, Inc.

100 Elwood Davis Road • North Syracuse, NY 13212 • USA
(315)453-3096 • fax (315)451-1694 • toll-free (877)776-6638
Sales: sales@sonnetsoftware.com • Support: support@sonnetsoftware.com
<http://www.sonnetsoftware.com>

High-Frequency Electromagnetic Software

Feature Chart for Sonnet Suites

**Additional Features in the
Professional Suite**

**Pricing at
www.sonnetsoftware.com**

**Optional Modules for
All Level2 & Level3 Products**

High Frequency Planar EM Analysis Suites from Sonnet Software

Product Suite	Sonnet Lite	Sonnet LitePlus	Sonnet Level2 Basic	Sonnet Level2 Silver	Sonnet Level3 Gold	Sonnet Professional
Analysis Memory Allowed	16 MB (Registered) 1 MB (Unregistered)	32 MB	64 MB	128 MB	256 MB	Unlimited
Metal Layers Allowed	2 + GND	2 + GND	2 + GND	2 + GND	3 + GND	Unlimited
Circuit Ports	4	6	6	6	8	Unlimited
Edge Ports	√	√	√	√	√	√
Internal Ports	√	√	√	√	√	√
Via Ports	√	√	√	√	√	√
Auto-Grounded Internal Ports	√	√	√	√	√	√
Symmetric Matrix Solver						√
Box Resonance Detection	√	√	√	√	√	√
Palette of Standard Geometries	√	√	√	√	√	√
Conformal Mesh						√
Thick Metal			√	√	√	√
Triangle (diagonal) Subsections			√	√	√	√
Project Templates	√	√	√	√	√	√
Double Precision Computing	√	√	√	√	√	√
Single Precision Computing						√
Via modeling	√	√	√	√	√	√
DC S-Parameters						√
Circuit GEO Parameters	√	√	√	√	√	√
Number of Parameters for Parameter Sweep Analysis	1	1	2	2	2	Unlimited
Circuit Optimization		√	√	√	√	√
Number of Parameters for Circuit Optimization	None	1	2	2	2	Unlimited
Automated User-Guided Circuit Subdivision				√	√	√
Incorporate Lumped Elements (L,R,C)	√	√	√	√	√	√
Incorporate External S-parameter Data Files	√	√	√	√	√	√
Incorporate Hierarchical Designs	√	√	√	√	√	√
DXF Translator (import/export)		(2 layers)	(2 layers)	(2 layers)	(3 layers)	(Option)
AWR's Microwave Office Interface (Import/Export)	√	√	(Option)	(Option)	(Option)	(Option)
Auto Documentation	√	√	√	√	√	√
GDSII Translator (import/export)			(Option)	(Option)	(Option)	(Option)

Cont'd on Next Page

Product Suite	Sonnet Lite	Sonnet LitePlus	Sonnet Level2 Basic	Sonnet Level2 Silver	Sonnet Level3 Gold	Sonnet Professional
Frequency Control						
Simple Frequency Sweep	√	√	√	√	√	√
Adaptive Band Synthesis (ABS)	√	√	√	√	√	√
ABS Data Caching - Multi-sweep						√
Interface to Agilent ADS			(Option)	(Option)	(Option)	(Option)
Broadband Spice Extraction			(Option)	(Option)	(Option)	(Option)
Cadence Virtuoso Interface						(Option)
Eagleware Genesys Interface						
Far-field Radiation Pattern Display	Available through Eagleware - Works with all Sonnet suites					
Pre-defined equations for plotting response	√	√	√	√	√	√
User defined equations curves for plotting response			√	√	√	√
Hardcopy Manuals & Media			√	√	√	√
Floating Network License Support					(Option)	(Option)
OS Supported	PC Windows	PC Windows	PC Windows	PC Windows	PC Windows	PC Windows Solaris (Sun) HP-UX Linux

Other features found only in the Sonnet Professional Suite:

- **Unlimited** memory use, ports, dielectric layers and metal conductor levels
- **Unlimited number of parameters** for parameterization and optimization
- **Dielectric Bricks** – Embedded dielectrics and dielectric discontinuity analysis (holes, overlays, resonators, etc.)
- **Conformal Mesh** - A patented Sonnet feature that analyzes geometries with diagonal or curved edges with a significantly higher degree of efficiency - now with thick metal analysis capability
- **Advanced meshing controls** – Meshing controls that may be set on a polygon-by-polygon basis
- **Licensing** features to support both single user and multiple user network environments. EM analysis jobs may be submitted to processing queues, making the most efficient use of network solver licenses.
- **Kinetic inductance metal loss** model for high temperature super conductor (HTSC) modeling
- **ABS Multi-sweep caching** for storing the ABS cache data for all analyses run on a project to save time in subsequent ABS analyses
- **Parallel subsection removal** – Provides added efficiency to the computation of wide ports
- **Supported on UNIX and Linux x86 platforms** - The Sonnet Professional suite is available for Solaris, HP-UX and Linux OS (Redhat, SuSE) in addition to Microsoft Windows
- **Symmetric Matrix Support** - Performs the solution using one half the memory
- **DC S-parameter Calculation** - Compute S-parameter solution for DC that is crucial for harmonic balance simulation
- **Integration with Cadence Virtuoso** - Optional Interface provides EM analysis inter operability with Cadence Virtuoso platform

Contact Sonnet Software for more information regarding Level2 & Level3 Suite Options for:

- **Far-field radiation pattern analysis**
- **Interface to the Agilent ADS design environment**
- **GDSII file import/export**
- **Floating network license support including remote *em* processing (Level3 Only)**
- **Interface to the AWR Microwave Office and Analog Office design environments**
- **Broadband Spice Model Extraction**

These products are available for addition to any Sonnet Level2 or Level3 Suite.