Modelithics®
World's Best RF & Microwave Simulation Models

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Launching the NEW Modelithics 3D Library for the Cadence Clarity 3D Solver

Tampa, Florida (December 6, 2023) – Modelithics®, the leading independent provider of accurate RF/microwave models for multiple EDA simulation software tools, is pleased to launch the NEW **Modelithics 3D Library for Cadence® Clarity™ 3D Solver!** The release of the new Modelithics 3D Library for the Cadence Clarity 3D Solver includes nearly 400 3D geometry models. Modelithics highly accurate encrypted full-wave EM analysis models are included for components such as inductors, resistors, filters, connectors, and packages from many of today's leading suppliers, including Coilcraft, Gigalane, Johanson Technology, Mini-Circuits, Passive Plus, Vishay-Barry, SV Microwave, TDK and more! All Modelithics 3D EM models are based on physical dimensions and material properties with each including their own dedicated, fully documented model datasheet.

Modelithics is the industry leader in providing highly accurate, premium passive and active RF and microwave circuit simulation models, including measurement-based highly scalable equivalent circuit models and measurement-validated 3D EM models. The Modelithics 3D EM models are based on physical dimensions and material properties, typically shared under NDA with Modelithics, from partnering supplier companies and then later encrypted to protect manufacturers' IP. Modelithics 3D EM models are readily combined with other circuit or module geometry/material definitions, to provide accurate simulations that take electromagnetic interaction effects into account, using the Cadence Clarity 3D Solver's full-wave solution to Maxwell's equations.

The Cadence Clarity 3D Solver is the third Cadence simulator to be added to Modelithics' portfolio of compatible EDA software simulation tools. Also, available is the Modelithics COMPLETE Library or measurement-based equivalent circuit models for the Cadence AWR Design Environment and the Cadence Spectre RF Option, which represents more than 27,000 passive and active components from 70+ vendors. Modelithics President & CEO, Larry Dunleavy stated: "I'm very pleased to see Cadence continue to recognize that the increased availability of accurate measurement-validated simulation models for a wide range of devices and components are essential for customer design success with Cadence tools. In this case, we are together addressing the growing need for customers to be able to assess the effects of complex electromagnetic interactions between components using full-wave analysis with the Cadence Clarity 3D Solver."

The Cadence Clarity 3D Solver is a 3D electromagnetic (EM) field solver for designing critical interconnects for PCBs, IC packages, and system on IC (SoIC) designs. It enables designers to tackle the most complex EM challenges when designing systems for 5G, automotive, high-performance computing (HPC), and machine learning (ML) applications with gold-standard accuracy. "Leveraging Clarity 3D encrypted models in the Cadence ecosystem is a natural unification between our design platforms and simulation capabilities," said Gary Lytle, Product Management Director in the Multiphysics System Analysis Business Unit at Cadence. "Using our proprietary techniques to protect the model creator's IP while enabling users to simulate complete systems is critical to our joint customers' ongoing design success. Modelithics is the right organization to create, curate and deliver validated models to this ecosystem, providing accurate results and accelerating time to market."

For more information regarding the new Modelithics 3D Library for the Cadence Clarity 3D Solver, please review the **v23.6 release notes**. To request a free trial, visit: www.Modelithics.com/MVP/Clarity.

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About Modelithics, Inc.

Modelithics, Inc. (www.Modelithics.com) was formed in 2001 to address the industry-wide need for high-accuracy RF and microwave active and passive simulation models for use in Electronic Design Automation (EDA). Modelithics' premium product is the Modelithics® COMPLETE Library, which includes the CLR Library™, containing measurement-based Microwave Global Models™ for a multitude of commercially-available passive component families, as well non-linear diode models, non-linear transistor models, and system level component models. Modelithics' services also address a wide range of custom RF and microwave measurement and modeling needs. Modelithics product offerings also include the Modelithics mmWave & 5G Library, Modelithics System Components Library™ the Modelithics COMPLETE+3D Library. Modelithics® is a registered trademark of Modelithics, Inc. Microwave Global Models™, System Components Library™ and CLR Library™ are also trademarks of Modelithics, Inc. The Modelithics Vendor Partner (MVP) Program allows for collaboration and open communication during the development of advanced data sets and models for commercially available microwave components and devices, with flexible sponsorship and distribution arrangements for the resulting data and models. An example of such an arrangement is the Modelithics Qorvo GaN Library and the Modelithics MACOM GaN Library. Both of these vendor specific libraries are distributed for free by Modelithics under sponsorship of Qorvo® and MACOM, respectively®. Modelithics also offers a Standard & Custom Test Fixture and Accessory Product Line, including legacy parts from J Micro Technology for a family of thin film Alumina substrate components.

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