

## **Optimal Corporation® Signal Integrity Extraction Technologies Enhance New Cadence® Allegro® Platform for Efficient System Interconnect Design Solutions**

SAN JOSE, Calif. – (BUSINESS WIRE) – Mar. 8, 2004 – Optimal Corporation, a leading provider of signal integrity design tools serving the semiconductor industry, today announced its interface support between PakSi®-E, its flagship parasitic extraction product, and the new Allegro® system interconnect design platform from Cadence Design Systems, Inc. (NYSE: CDN). PakSi-E from Optimal precisely models the complex geometries of all electronic packages and includes the frequency-dependent skin effect and dielectric loss for high-speed designs. With this innovative 3D field solver engine, Optimal is providing a key technology to the Cadence Allegro platform, offering a complete design flow from IC to Package to PCB.

Cadence's new Allegro platform delivers a new-generation co-design methodology that promotes collaboration across the entire design chain, including designers of I/O buffers, ICs, packages and PCBs. As a member of the Cadence Connections® Program, Optimal has access to software and applications notes, ensuring open collaboration that benefits mutual customers.

Moving forward, Optimal's 3D field solver technology, found today in PakSi-E, will be embedded in Cadence's Allegro Package SI 620 and Allegro Package Designer 620, giving designers the ability to extract signal interconnect for simulation or to characterize the entire IC Package as a simulation model. The integrated solution will include true 3D characterization of solder bumps, wire bonds and solder balls, as well as 3D modeling of complex ground and power planes.

"Combined, the Cadence and Optimal solutions enable signal integrity engineers to efficiently complete their designs, layouts, parasitic extraction and circuit simulation, all within one cohesive and empirically easy-to-use environment," commented Dr. An-Yu Kuo, Chief Technical Officer for Optimal Corporation.

PakSi-E is faster and more accurate than competing products and can extract entire IC Package simulation models in a very timely fashion. With the integration of Optimal's proven 3D field-solver technology from PakSi-E into Cadence's Allegro platform, the two companies offer the best-integrated technical solution for IC Package design and analysis in the industry.

"Optimal's PakSi-E product is recognized as a best-in-class field solver technology for the advanced IC packaging market and it is a natural fit for that technology to be embedded in the Cadence Allegro Package SI and Allegro Package Designer products," said Charles Giorgetti, Corporate Vice President and General Manager for the Silicon-Package-Board Business Unit, Cadence. "Together they provide a unique solution that enables users to focus 100 percent of their time on design and analysis tasks, something that is greatly appreciated by our mutual customers."

### **About the Cadence Connections® Program**

The Cadence Connections Program promotes open interoperability in all areas of electronic design including digital, custom IC, analog/mixed-signal and PCB design. By attracting best-in-class partners, Cadence offers the industry's largest collection of third-party solutions operating fully with the Cadence suite of design tools. The Connections Program has over 120 member companies working toward developing an optimized silicon design chain for customers. Information about the Connections Program may be found at <http://www.cadence.com/partners/connections/>.

### **About Optimal Corporation**

Optimal is a leading provider of high signal integrity design tools. The company's breakthrough technology and engineering expertise have helped leading chip and system companies solve challenging high-speed design problems and bring industry-leading products to market. Additional information may be obtained online at [www.optimalcorp.com](http://www.optimalcorp.com) or by e-mailing [info@optimalcorp.com](mailto:info@optimalcorp.com).

# Optimal

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