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Contact: Kathy Welch  
EDA Consortium  
Phone 408/579-2464  
kathy@edac.org

Georgia Marszalek  
Valley PR for EDA Consortium  
Phone 650-345-7477  
Email: Georgia@valleyPR.com

## **PHILIPS RECEIVES EDA CONSORTIUM'S**

### **2002 DESIGN ACHIEVEMENT AWARD**

#### **EDA Consortium Honors Philips' Nexperia Silicon System Design Team for Multimedia Design**

NEW ORLEANS, Louisiana, Design Automation Conference — June 10, 2002 —The EDA (Electronic Design Automation) Consortium (San Jose, Calif.) announced today that Philips' Nexperia™ silicon system design team is the recipient of the EDA Consortium's 2002 Design Achievement Award. The Nexperia design team, which is part of Philips' semiconductors division, received the award for the design of a highly integrated multimedia-processing chip -the Nexperia-based pnx8500. J. Augusto de Oliveira, Senior Fellow and Chief Architect of Digital.

The Nexperia-based Home Entertainment Engine pnx8500 and its successor pnx8525 are the first instantiations of the Nexperia Digital Video Platform (DVP). The single-chip silicon system receives, decrypts, decodes, converts and displays multiple media streams having different data formats. The pnx8525 handles MPEG2 video, audio, and various other stream types, in compressed or uncompressed formats, and is designed for use in Consumer Systems at Philips Semiconductors will accept the award at the Consortium's annual luncheon at the Design Automation Conference in New Orleans today. Interactive Digital Television (iDTV) and other digital connected home applications in markets throughout the world.

Walden C. Rhines, PhD., CEO & Chairman of the Board of Mentor Graphics Corporation and EDA Consortium Chairman, remarked, "We are pleased to recognize Philips and the Nexperia IC design team for their achievements in the design of a circuit for use in the worldwide consumer electronics marketplace. Their winning design is an example of innovative electronic design achievement that highlights the role commercial EDA tools play in overcoming design challenges, achieving design success, improving productivity and time-to market."

"We are delighted to receive the Design Achievement Award for our Nexperia based Home Entertainment Engine," said John Payne, Senior Vice President and General Manager, Digital Consumer Systems at Philips Semiconductors. "With the Nexperia silicon system architecture, Philips will lead the transition from analog to digital, and will reduce costs and time to market by deploying this highly integrated hardware and software solution. With the Nexperia based Home Entertainment Engine pnx8500 and pnx8525 we offer integrated TV makers as well as service providers a flexible and cost efficient solution to enrich consumers' home entertainment experience while preserving investment with a future proof solution."

#### **The Winning Design Application- Interactive Consumer Digital and Video**

An international hardware design team of 36 members employed several commercial EDA tools to design the Nexperia based Home Entertainment Engine. The circuit's design is approximately equivalent to 8-million gates with 70 clock domains and an operating speed of 200MHz. The circuit has multiple on-chip CPUs and many additional functional units with Direct Memory Access (DMA) capability. The CPU cores, both MIPS and TriMedia, are aided by an array of peripheral devices. In addition the Nexperia chip has 7 analog PLLs (Phase Locked Loops), 9 DDSs (Digital Delay Synthesizers) operating at 1.7 GHz. and 237 RAMs on board. The pnx8500 is fully testable. The larger memories and caches include BIST (Built In Self Test).

#### **About the Design Achievement Award**

Established in 1998, the EDA Consortium's Design Achievement Award was created to honor the innovative use of EDA tools and the companies that use these tools to create outstanding products. EE Times and the IEEE Circuits and Systems Society are co-sponsors. The award honors design achievement and the vital role of EDA in developing electronic devices.

#### **About Electronic Design Automation (EDA)**

Where Electronics Begins™ best describes Electronic Design Automation, the fundamental means by which electronic engineering ideas become reality. The EDA industry provides the software and design services vital to the creation and delivery of the world's electronic products. Virtually every major semiconductor and electronics systems company in the world — including semiconductors, consumer electronics, communications, computers, automotive, medical and aerospace — use its tools and services. The industry employs over 20,000 people and more than 500,000 people use its tools and services.

#### **About the EDA Consortium**

Founded in 1989, the EDA Consortium is an international association of companies engaged in the development,

manufacture, and sale of electronic design automation tools and services. The Consortium's mission is to promote the health of the industry and does so by leading forums to discuss industry issues, sponsoring the DAC and DATE conferences, and disseminating relevant information such as revenue statistics through the Market Statistics Service. The Consortium is composed of a board of directors of industry CEOs with active committees and supporting staff. For more information, contact EDA Consortium, 111 West Saint John Street, Suite 220, San Jose, California 95113, USA, office 408-287-3322, fax 408-317-3322, or visit [www.edac.org](http://www.edac.org).

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