

Please visit [www.edn.com/2006hot100](http://www.edn.com/2006hot100) for links to EDN's original coverage of each of the Hot 100 products. For continuous new-product coverage, check out [www.edn.com/productfeed](http://www.edn.com/productfeed).

As the calendar nears January, popular culture inevitably begins to cough up countless "best-of" lists, covering frivolous topics from reality TV to celebrity hairstyles. In an effort to counteract this tide of inanity, we at EDN proudly offer you something of substance: A Hot 100 list built by and for electronics engineers.

Our editors mercilessly cull the herd of new-product announcements they see during the year, resulting in this distillation of the most innovative and significant offerings. You'll find process technologies, power sources, storage devices, processors, IP (intellectual-property) cores, communication controllers, test instruments, embedded boards, EDA tools, and more. If they advanced the state of the art in electronics, they're here. And not a movie star in sight.

# HOT products 100

## ANALOG ICs

### Allegro Microsystems

ACS760 series Hall-effect hot-swap controller  
[www.allegromicro.com](http://www.allegromicro.com)

### Analog Devices

ADA4899-1 ultralow-noise amplifier  
[www.analog.com](http://www.analog.com)

### Cirrus Logic

CS3003 chopper amplifier  
[www.cirrus.com](http://www.cirrus.com)

### Intersil

ISL29001 and ISL29002 light-to-digital output sensors  
[www.intersil.com](http://www.intersil.com)

### Linear Technology

LT6244 low-noise CMOS amplifiers  
[www.linear.com](http://www.linear.com)

### Maxim

MAX9982 800- to 1000-MHz mixer  
[www.maxim-ic.com](http://www.maxim-ic.com)

### Microchip

MCP6G01 and MCP6G02 gain-selectable amplifiers  
[www.microchip.com](http://www.microchip.com)

### National Semiconductor

LM4562 audiophile amplifier  
[www.national.com](http://www.national.com)

### NEC

$\mu$ PC835 JFET amplifier  
[www.am.necel.com](http://www.am.necel.com)

### Texas Instruments

OPA365 rail-to-rail input amplifier  
[www.ti.com](http://www.ti.com)

### Texas Instruments

TPA203xD1 Class D audio power amplifier  
[www.ti.com](http://www.ti.com)

## ASICs, IP, AND PROCESS TECHNOLOGY

### Certicom

Production Control Core intellectual-property core  
[www.certicom.com](http://www.certicom.com)

### Infineon Technologies

Disk read-channel intellectual-property core  
[www.infineon.com](http://www.infineon.com)

# HOT 100 products

www.edn.com/2006hot100

## Cadence Design Systems

Space-based router (previously known as Precision)  
www.cadence.com

## Ciranova

PCell Xtreme tool for PCell information  
www.ciranova.com

## Invarium

Dimension PPC (process- and proximity-correction) patterning-synthesis tool  
www.invarium.com

## The MathWorks

Simulink HDL coder  
www.mathworks.com

## Mentor Graphics

Calibre LFD (lithography-friendly design) design-for-manufacturing tool  
www.mentor.com

## Novas Software

Silatr RTL debugging tool  
www.novas.com

## OneSpin Solutions

CVE (circuit-verification environment) formal-verification product  
www.onespin-solutions.com

## Sierra Design Automation

Olympus-SOC IC router  
www.sierra-da.com

## Sigma-C (Synopsys acquired in June 2006)

Solid+ microlithography simulator for design and optical-proximity correction  
www.synopsys.com

## Silistix

ChainWorks tool set for asynchronous design  
www.silistix.com

## Synopsys

PrimeTime VX digital statistical-timing-analysis tool  
www.synopsys.com

## MULTIMEDIA

### Akustica

AKU2000 MEMS microphone  
www.akustica.com

### Ambarella

A1 high-definition-video processor  
www.ambarella.com

### Texas Instruments

DM6443/6 DaVinci video processors  
www.ti.com

### Toshiba America Electronic Components

TC90400XBG/FG digital-video systems on chips  
www.toshiba.com

## POWER

### Analog Devices

ADuM524X isoPower family of dual-channel isolators  
www.analog.com

### Enpiron

EP53x2Q 1A/3W buck converter  
www.enpiron.com

### Freescale

MC34703 Quiccsupply 3 power-management IC  
www.freescale.com

### International Rectifier

IR1167 SmartRectifier IC  
www.irf.com

### Intersil

ISL6326 and ISL6327 PWM controllers  
www.intersil.com

### Maxim

DS2790 battery fuel gauge  
www.maxim-ic.com

### Microchip

dsPIC30F1010/202X family of digital-signal controllers for switched-mode power supplies  
www.microchip.com

### National Semiconductor

LM5071 power-over-Ethernet controller  
www.national.com

### Power Integrations

PeakSwitch power-conversion IC  
www.powerint.com

### Primarion

PX7510/20 digital-power-conversion and -management ICs  
www.primarion.com

### XP Power

RCL175 ac/dc switching power supply  
www.xppower.com

### Zilker Labs

ZL2105 IC digital-power-conversion and -management IC  
www.zilkerlabs.com

## PROCESSORS

### AMD

Turon 64 X2 mobile CPUs  
www.amd.com

### Altera

Nios II V6.0 and C2H (C-to-hardware-acceleration) compiler  
www.altera.com

### Atmel

AT91SAM7SE512/256/32 ARM7-based microcontrollers  
www.atmel.com

### Cavium Networks

CN31XX and CN30XX MIPS64-based processors  
www.caviumnetworks.com

### Freescale

MSC8144 quad-core DSP  
www.freescale.com

### Intel

Core Microarchitecture CPUs (Merom, Conroe, Woodcrest)  
www.intel.com

### Intel

Core 2 Extreme QX6700 Quad-Core CPU  
www.intel.com

### Luminary Micro

LM3S101/102 Stellaris 32-bit microcontrollers  
www.luminarymicro.com

### Microchip

PIC18F97J60 8-bit microcontrollers  
www.microchip.com

### Ramtron

VRS51L2070 8051 microcontroller  
www.ramtron.com

### Renesas

SH7785 microcontroller with multimedia support  
www.renesas.com

### STMicroelectronics

STR910F ARM9E-based microcontrollers  
www.st.com

### Tensilica

Diamond Standard family of Xtensa processors  
www.tensilica.com

## TEST AND MEASUREMENT

### Agilent

V1250 series handheld digital multimeters  
www.agilent.com

### LeCroy

WaveSurfer and WaveRunner digital-storage oscilloscopes with WaveScan feature  
www.lecroy.com

### National Instruments

LabView 8.20  
www.ni.com

### Tektronix

RSA6100A real-time spectrum analyzer  
www.tek.com