

# EDN HOT 100 PRODUCTS

It may not be as much fun as holiday shopping, but selecting the most innovative and significant product and technology offerings of 2010 is a task our editors enjoy. *EDN* proudly presents its list of the Hot 100 products that in 2010 heated up the electronics world and

grabbed the attention of our editors and our readers.

Visit [www.edn.com/2010hot100](http://www.edn.com/2010hot100) for links to *EDN's* original coverage of each of the products you see listed on these pages. For continuous new-product coverage, go to [www.edn.com/productfeed](http://www.edn.com/productfeed).

## ANALOG

**Analog Devices**  
AD5791 20-bit DAC  
[www.analog.com](http://www.analog.com)

**Fairchild Semiconductor**  
FAN739x, high- and low-side gate driver  
[www.fairchildsemi.com](http://www.fairchildsemi.com)

**Intersil**  
ISL59605 MegaQ video equalizer  
[www.intersil.com](http://www.intersil.com)

**Linear Technology Corp**  
LT6656 low-power voltage reference  
[www.linear.com](http://www.linear.com)

**Maxim Integrated Products**  
MAX11210 single-channel, 24-bit ADC  
[www.maxim-ic.com](http://www.maxim-ic.com)

**Microchip Technology**  
MCP4361 quad potentiometer and MCP4362 quad rheostat  
[www.microchip.com](http://www.microchip.com)

**National Semiconductor**  
ADC12D1800 ADC  
[www.national.com](http://www.national.com)

**National Semiconductor**  
DS92LX2121/2 SERDES  
[www.national.com](http://www.national.com)

**Nuvoton**  
ISD61S00 audio-chip recorder  
[www.nuvoton-usa.com](http://www.nuvoton-usa.com)

**Silicon Labs**  
Si270x class-D audio amplifier  
[www.silabs.com](http://www.silabs.com)

**Texas Instruments**  
OPA1641, dual OPA1642, and quad OPA1644 operational amplifiers  
[www.ti.com](http://www.ti.com)

**Wolfson Microelectronics**  
WM8912 audio DAC  
[www.wolfsonmicro.com](http://www.wolfsonmicro.com)

## COMMUNICATIONS AND NETWORKING

**Atheros Communications**  
AR7400 power-line-networking chip set  
[www.atheros.com](http://www.atheros.com)

**Quantenna**  
QHS600 4x4 MIMO 802.11n chip set  
[www.quantenna.com](http://www.quantenna.com)

**Sigma Designs**  
CG511x power-line-networking chip set  
[www.sigmadesigns.com](http://www.sigmadesigns.com)

**Summit Semiconductor**  
FS848 wireless audio transceiver  
[www.summitsemi.com](http://www.summitsemi.com)

## COMPONENTS

**Cree**  
XLamp MPL EasyWhite LED  
[www.cree.com](http://www.cree.com)

**Digi International**  
iDigi machine-to-machine network management  
[www.idigi.com](http://www.idigi.com)

**Diodes Inc**  
ZXTN26020DMF 20V bipolar transistors  
[www.diodes.com](http://www.diodes.com)

**Efficient Power Conversion Corp**  
GaN power transistors  
[www.epc-co.com](http://www.epc-co.com)

**Infineon**  
OptiMOS MOSFETs  
[www.infineon.com](http://www.infineon.com)

**International Rectifier**  
iP2010 and iP2011 GaN power transistors  
[www.irf.com](http://www.irf.com)

**Luminus Devices**  
UV CBT-120 UV LED  
[www.luminus.com](http://www.luminus.com)

**Molex**  
Helieon LED module  
[www.molex.com](http://www.molex.com)

**National Semiconductor**  
Webench LED Architect  
[www.national.com](http://www.national.com)

**Philips Lumileds**  
Luxeon Rebel LEDs for indoor illumination  
[www.philipslumileds.com](http://www.philipslumileds.com)

**Texas Instruments**  
CSD86350Q5D Power Block synchronous MOSFET half-bridge device  
[www.ti.com](http://www.ti.com)

**Vishay**  
SiR880DP FET  
[www.vishay.com](http://www.vishay.com)

## DEVELOPMENT KITS

**Avnet Electronics Marketing**  
Xilinx Spartan-6 FPGA/DSP-development kit  
[www.avnet.com](http://www.avnet.com)

**Texas Instruments**  
LaunchPad development board  
[www.ti.com](http://www.ti.com)

**EDA**  
**Atrenta**  
SpyGlass-Physical RTL design-closure-estimation tool  
[www.atrenta.com](http://www.atrenta.com)

**Magma Design Automation**  
Tekton STA/extraction/Spice environment  
[www.magma-da.com](http://www.magma-da.com)



**Mentor Graphics**  
Calibre InRoute Olympus  
routing kernel  
www.mentor.com

**Mentor Graphics**  
SystemC support  
for Catapult C  
www.mentor.com

**Synopsys**  
DesignWare STAR (self-test-  
and-repair) ECC IP  
www.synopsys.com

## LOGIC ANALYZERS

**LeCroy**  
LogicStudio 16 logic  
analyzer  
www.lecroy.com

**Tektronix**  
TLA6000 midrange logic  
analyzers  
www.tektronix.com

## MEMORY AND STORAGE

**IM Flash Technologies**  
25-nm, 3-bit-per-cell MLC  
NAND-flash memory  
www.imftech.com

**Micron Technology**  
C300 and P300 solid-state  
drives  
www.micron.com

**PLX Technology**  
NAS 7820, 7821, and 7825  
storage controllers  
www.plxtech.com

**SandForce**  
SF-2000 solid-state-drive-  
controller series  
www.sandforce.com

**Seagate Technology**  
Momentum XT hybrid hard-  
disk drive  
www.seagate.com

**Western Digital**  
Four-platter, 3-Tbyte hard-  
disk drives  
www.westerndigital.com

## MICROCONTROLLERS AND PROCESSORS

**AMD**  
Bobcat Fusion CPU-plus-APU  
www.amd.com

**ARM**  
Cortex-A15 CPU core  
www.arm.com

**Freescale Semiconductor**  
Kinetic ARM-based  
microcontrollers  
www.freescale.com

**Intel**  
Lincroft Atom CPU and  
Moorestown chip set  
www.intel.com

**Texas Instruments**  
TMS320C66x fixed- and  
floating-point cores  
www.ti.com

**Texas Instruments**  
Integra ARM-based micro-  
controller-plus-DSP family  
www.ti.com

**Vitesse**  
VSC7460 Jaguar carrier-  
Ethernet switch  
www.vitesse.com

## MULTIMEDIA ICs

**AMD**  
Radeon HD 6800 series  
graphics processors  
www.amd.com

**Zenverge**  
ZN100, ZN150, and ZN200  
audio, video, and DRM  
transcoders  
www.zenverge.com

## OSCILLOSCOPES

**Agilent Technologies**  
86100D DCA-X (extended)  
wide-bandwidth equivalent-  
time-sampling oscilloscope  
www.agilent.com

**Rohde & Schwarz**  
RTO 2-GHz oscilloscopes  
www.rohde-schwarz.com

## POWER

**Enpiron**  
EN6300 family of voltage  
mode synchronous buck  
dc/dc converters  
www.enpiron.com

**Fairchild Semiconductor**  
FAN5365 digitally program-  
mable regulator  
www.fairchildsemi.com

**Freescale Semiconductor**  
MCF51EM256  
smart-meter IC  
www.freescale.com

**Linear Technology Corp**  
LT4180 virtual remote sense-  
controller IC  
www.linear.com

**Linear Technology Corp**  
LTC3108 energy-harvesting  
boost regulator  
www.linear.com

**National Semiconductor**  
LMZ series of Simple Switch-  
er modules  
www.national.com

**National Semiconductor**  
LM5035C PWM controller  
www.national.com

**Picor**  
Cool-Power platform  
www.picorpower.com

**Powercast**  
TX91501 transmitter module  
www.powercastco.com

**Semtech**  
SC174 and SC173 buck  
regulators  
www.semtech.com

**Silicon Labs**  
Si8420 isolator  
www.silabs.com

**Skinny Bytes**  
Touchscreen AIO  
www.skinnybytes.com

**STMicroelectronics**  
SPV1001 bypass diode  
www.st.com

**Teridian**  
78M6618 power-metering  
chip  
www.teridian.com

**Texas Instruments**  
TPS7A30 negative-output  
low-dropout linear regulator  
www.ti.com

## RF

**Hittite Microwave**  
HMC-C070 synthesizer  
www.hittite.com

**Marvell**  
88DE8500 hybrid silicon tuner  
www.marvell.com

**Maxim Integrated Products**  
MAX2042 upconverting  
and downconverting,  
double-balanced passive  
mixer  
www.maxim-ic.com

**Peregrine Semiconductor**  
PE42662 SP6T (single-pole/  
six-throw) RF switch  
www.peregrine-semi.com

**Peregrine Semiconductor**  
PE42440 SP4T (single-pole/  
four-throw) RF switch  
www.peregrine-semi.com

**Radiometrix**  
TXL2/RXL2 9600-baud RF  
modem  
www.radiometrix.com

**RFMD**  
RF3931 GaN unmatched  
power transistors  
www.rfmd.com

**Scintera Networks**  
SC1887 adaptive RF predis-  
tortion chip  
www.scinteranetworks.com

**Texas Instruments**  
CC1190 RF sub-GHz range  
extender  
www.ti.com

**Texas Instruments**  
CC2590/1 RF 2.4-GHz range  
extender  
www.ti.com

## SEMICONDUCTOR PROCESSES AND IP

**IBM**  
CMOS-7HV high-voltage,  
mixed-signal process  
www.ibm.com

## SIGNAL ANALYZERS

**Anritsu**  
MS2830A 9-kHz to 3.6-, 6-, or  
13.5-GHz signal analyzers  
www.us.anritsu.com

## SIGNAL GENERATORS

**Agilent Technologies**  
81180A 4.2G-sample/sec  
arbitrary-waveform generator  
www.agilent.com

**Anritsu**  
MG3690C 70-GHz RF/micro-  
wave-signal generator  
www.us.anritsu.com

**LeCroy**  
ArbStudio arbitrary-waveform  
generator  
www.lecroy.com

## SINGLE-BOARD COMPUTERS

**Adlink**  
Ampro ReadyBoard 740  
Atom-based single-board  
computer  
www.adlink.com

## SINGLE-BOARD COMPUTERS (Continued)

### WinSystems

PCM-VDX-2-512 Vortex86DX-processor-based PC/104 1-GHz single-board computer  
[www.winsystems.com](http://www.winsystems.com)

## SOFTWARE/EDA FOR BOARD/SYSTEM DESIGN

### Cadence Design Systems

Allegro PCB SI signal-integrity tool  
[www.cadence.com](http://www.cadence.com)

### CST

Studio Suite 2010 for EM, mechanical, and thermal simulation  
[www.cst.com](http://www.cst.com)

### The MathWorks

Target Support Package for TI C2000 Piccolo microcontrollers  
[www.mathworks.com](http://www.mathworks.com)

### Mentor Graphics

FloTherm 9 computational fluid-dynamics software  
[www.mentor.com](http://www.mentor.com)

### National Instruments

LabView 2010 graphical-design software  
[www.ni.com](http://www.ni.com)

### National Semiconductor

Webench FPGA Power Architect  
[www.national.com](http://www.national.com)

### Power Integrations

PI Expert  
power-integrity-analysis tool  
[www.powerint.com](http://www.powerint.com)

### Sigrity

Channel Designer  
power-integrity-analysis tool  
[www.sigrity.com](http://www.sigrity.com)

### Sunstone Circuits

PCB123 Version 4 circuit-design software  
[www.sunstone.com](http://www.sunstone.com)

## SOURCE-MEASURE UNITS

### Agilent Technologies

N6781A source-measure unit for battery-drain analysis  
[www.agilent.com](http://www.agilent.com)

## SPECTRUM ANALYZERS

### Agilent Technologies

N9342C HSA 100-kHz to 7-GHz handheld spectrum analyzer  
[www.agilent.com](http://www.agilent.com)

### Anritsu

MS272xC Spectrum Master handheld RF spectrum analyzers  
[www.us.anritsu.com](http://www.us.anritsu.com)

## WIRELESS TEST

### Aeroflex

7100 Series fading simulator with support for LTE bandwidths to 20 MHz with a frequency range to 6 GHz  
[www.aeroflex.com](http://www.aeroflex.com)

### National Instruments

Version 2.0 WLAN software suite for IEEE 802.11n testing  
[www.ni.com](http://www.ni.com)