

Welcome to the August 2006 issue of the *Inside Edge*, bringing you the latest news about Altera's products and solutions.

## Monthly Spotlight

### [World's Largest FPGA with Embedded Transceivers Now Shipping](#)

Altera is now shipping the largest Stratix® II GX device, which combines 20 transceivers with over 130K equivalent logic elements (LEs) and 6.7 Mbits of memory. These robust transceivers deliver optimal jitter performance without compromising power to meet high bandwidth multi-protocol design needs.

## Software, Intellectual Property & Development Kits

### [Nios II Contest Results -- Inspiration for Your Next Embedded Design](#)

Selected from over 500 entries, here are the top twenty design papers from the 2005 Nios® II Design Contest. See how Nios II is used in a range of applications from encryption, image and audio processing to networking, security, and signal processing.

## Technology & End Markets

### [Reference Designs: Accelerate WiMAX Design with Altera's DUC & DDC](#)

Discover how Altera devices, tools, IP and reference designs accelerate the design of digital up conversion (DUC) and digital down conversion (DDC) functions for WiMAX basestations.

### [TPACK's Secure, Custom Data Linecard Solutions Enabled by Altera](#)

TPACK provides customized data linecard solutions for mapping, framing, and switching packet services. Find out how TPACK achieves a royalty-based business model for its products by leveraging design security provided by Stratix II FPGAs and HardCopy® structured ASICs.

## Events, Training & Net Seminars

### [Attend Code:DSP Video, Image & Signal Processing Seminars](#) Free

Belgium and Japan – August/September – Attend a full-day seminar to see leading-edge products from top global companies. Learn about DSP design flow; video solutions including SD and HD H.264, scaling, and deinterlacing; and wireless solutions, including OFDM, IF, and co-processing. [Register Now](#)

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### [Discover Altera's Complete Broadcast Solutions at IBC 2006](#)

September 8–12, Amsterdam – Visit the Altera booth to learn how you can use our complete, professional, broadcast-programmable solutions to meet your company's most aggressive deadlines.

### [See Altera's PCI Express & DDR2 Solutions at Denali Memcon](#)

September 12–14, 2006, Santa Clara, CA - Visit Altera at Denali Memcon to learn about Altera's complete PCI Express and Memory Interface solutions consisting of Stratix II, Stratix II GX, Cyclone® II FPGAs, IP cores and development boards.

### [Net Seminar: Managing Signal Integrity for High-Speed Interfaces](#) **Free**

Watch this on-demand seminar now, or at your convenience. Learn how to identify signal integrity components that influence system design, specify pass criteria for LVDS and memory interfaces and manage signal integrity using advanced board-level design techniques.

## Support & Literature

### [Reduce System Cost in Portable Applications Using MAX II CPLDs](#)

Find out how MAX® II CPLDs in ultra small packages and a new power-down capability helps portable system designers reduce system cost and conserve battery life. [Download the white paper now.](#)

### [Stay on Top of the Latest Changes with PCN/PDN email Advisories](#)

Process change notifications (PCN) and process discontinuance notifications (PDN) describe a change, provide reasons for it, tell you what products are affected, when the change takes effect and more. [Subscribe](#) to have them delivered to your desktop.

## Altera in the News

### [Altera ships Stratix with embedded transceiver](#), **Electronic News**

Find out how Altera's Stratix II GX EP2SGX130 device, the world's largest FPGA with embedded transceivers, can help you address multiple markets and customer requirements more cost-effectively than ever before.

### [Latest Cyclone II offers “fast on” capability](#), **EE Times**

You'll want to read about the Cyclone II EP2C15A with its “fast on” capability that shortens power-on time at startup and makes it the perfect FPGA for automotive applications including navigation, rear-seat entertainment, driver assistance and more.



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