

Trends: Move to 28Gbps

- For the highest data rate and bandwidth applications
- 100 Gigabit Ethernet
 - Optical interface is moving to 40250 and 40300
 - 30-40% size and cost-reduced optical module
 - Power efficiency per Gbps
- Standards: 100GbE, OTN4
- Electrical specs: CS-282

28 Gbps enables greater system integration and lower system cost

[Webcast: Extending Transceiver Leadership on 28 nm](#), 40 minutes
 Watch this webcast to learn about key transceiver capabilities in our 28-nm Stratix® V FPGAs, including advanced signal conditioning for back-plane and optical interfaces, flexible clocking options, simulation and link analysis flow for enhanced transceiver design productivity.

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Industry's First Variable-Precision DSP Block

Set the Precision Dial to Match Your Application

[Webcast: Enabling High-Precision, High-Performance DSP](#), 23 minutes
 Watch this webcast to learn about the FPGA industry's first variable-precision DSP architecture, in our 28-nm Stratix V FPGA family. See how this architecture allows you to set the precision of each DSP block. Learn how each DSP block precision can be set individually to accommodate bit growth and the required precision within the DSP datapath.

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[Video: See PCI Express Hard IP Demo on Low-Cost FPGA](#), 7 minutes
 Watch this video to learn how the Cyclone® IV GX Transceiver Starter Kit fast-tracks development of high-volume applications. Learn how easy it is to use the Cyclone IV GX FPGA's PCI Express functionality, and see how a development kit featuring a low-cost FPGA addresses both power consumption and device cost challenges.

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[Video: Easily Support WDR CMOS Image Sensor Processing with Low-Cost FPGAs](#), 7 minutes
 Watch this video to learn how the Cyclone III FPGA performs system tasks to transform the sensor's RAW image data into the digital video interface (DVI) output format. See a demo of the Aptina MT9M033 720p WDR CMOS image sensor, image processing intellectual property (IP) from Apical Ltd., and the Cyclone III FPGA Development Kit.

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Expanding Bandwidth Demands

Mobile Internet, Fiber to the Home, 3G Networks, Cloud Computing, Mobile Backhaul

[Webcast: Introducing 28-nm Stratix V FPGAs](#), 35 minutes
 Watch this webcast to learn how Altera's new 28-nm Stratix V FPGAs deliver groundbreaking innovations addressing the challenges of next-generation designs. You'll learn how Stratix V FPGAs deliver the highest bandwidth, ultimate flexibility, and a risk-free path to lower cost.

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