



## Real Time, High Performance Acquisition Solutions



### Overview

The PCE-315/475 is DEG's highest performance PCI-Express DSP carrier board. With the ability to host XMC, PMC and FMC mezzanine cards, the PCE-315/475 sets the benchmark for versatility in the embedded PCI-Express market. Coupling this flexibility with a Xilinx Virtex-6 SX315T or SX475T, the PCE-315/475 enables both high-speed digital acquisition and extensive digital signal processing all within a single PCI-Express slot. To take full advantage of the Virtex-6 DSP48E slices, DEG engineers included the ability to add up to two banks of 8GB DDR2 SDRAM. Each DDR2 bank sustains a maximum transfer rate of 3.2GB/second. Using both banks of memory yields an aggregate sustained performance of 6.4GB/second throughput. The unparalleled performance and flexibility of the PCE-315/475 makes it an ideal candidate for numerous applications including Radar, Ladar, Lidar, Satcom, Sigint, and many others.

Great hardware deserves great software. DEG offers both a signal visualization tool and an FPGA design kit to compliment the PCE-315/475 and our family of analog-digital converter products. ADCView captures and displays user-selectable signal information and performance in real-time. The FPGA design kit allows customers to leverage and modify DEG source code, develop within an open architecture, and rapidly integrate custom FPGA HDL with DEG DSP functions and resources.

### Features

- Xilinx Virtex-6 SX315T or SX475T
- Supports FMC, PMC, XMC mezzanines
- Up to dual banks of 8GB DDR2
- Windows & Linux support

### Benefits

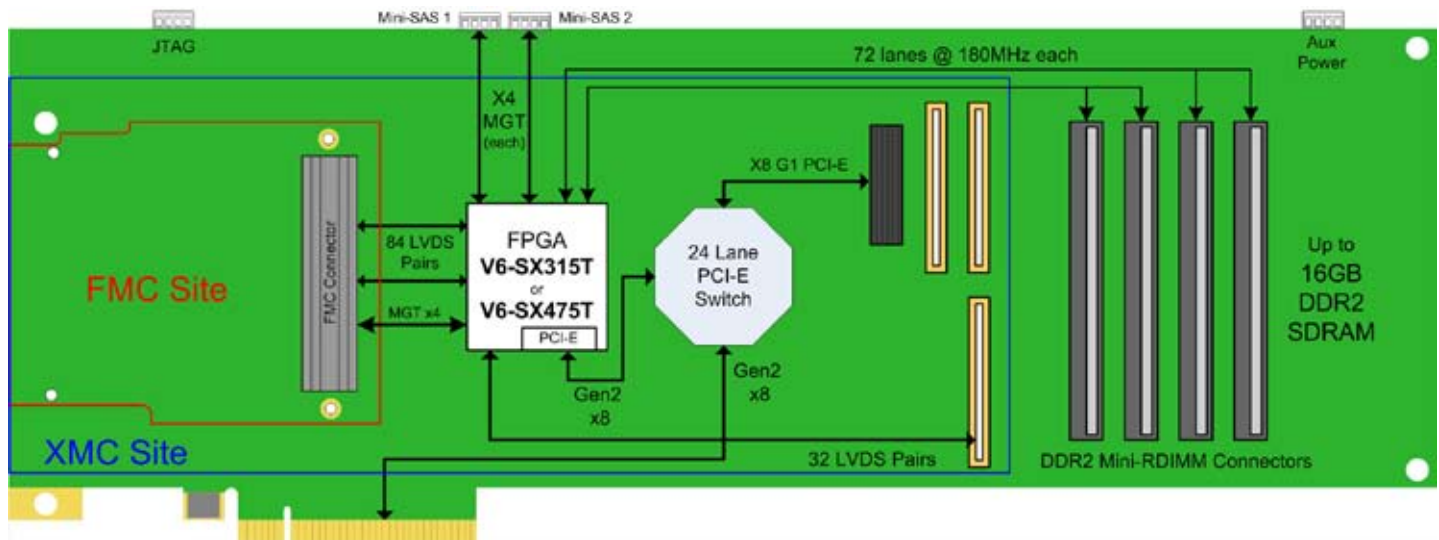
- Versatile carrier board
- High-performance data acquisition
- Powerful FPGA for DSP processing
- FPGA design kit available

### Performance

- Most powerful FPGA's available
- X8 PCI-Express Gen2 interface
- Sustains 3Gsps digital acquisition
- 6.4GB/sec memory transfer rate



## PCE-315/475 Block Diagram



For more  
information  
or details,  
please contact:



485 East 17th Street, Ste. 400  
Costa Mesa, CA 92627  
www.delphieng.com

Telephone: (949)515-1490  
Fax: (949)515-1491  
Email: sales@delphieng.com