



Real Time, High Performance Acquisition Solutions



Overview

The PCE-95M is DEG's first high-performance PCI-Express DSP carrier board. With the ability to host XMC, PMC and FMC mezzanine cards, the PCE-95M sets the benchmark for versatility in the embedded PCI-Express market. Coupling this flexibility with a Xilinx Virtex-5 SX95T, the PCE-95M enables both high-speed digital acquisition and extensive digital signal processing all within a single PCI-Express slot. To take full advantage of the SX95T DSP48E slices, DEG engineers included two banks of 512MB DDR2 SDRAM. Each DDR2 bank sustains a maximum transfer rate of 2.4GB/second. Using both banks of memory yields an aggregate sustained performance of 4.8GB/second throughput. The unparalleled performance and flexibility of the PCE-95M 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-95M 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

- Supports FMC, PMC, XMC mezzanines
- Xilinx Virtex-5 SX95T FPGA
- Dual banks of 512MB DDR2
- Windows & Linux support

Benefits

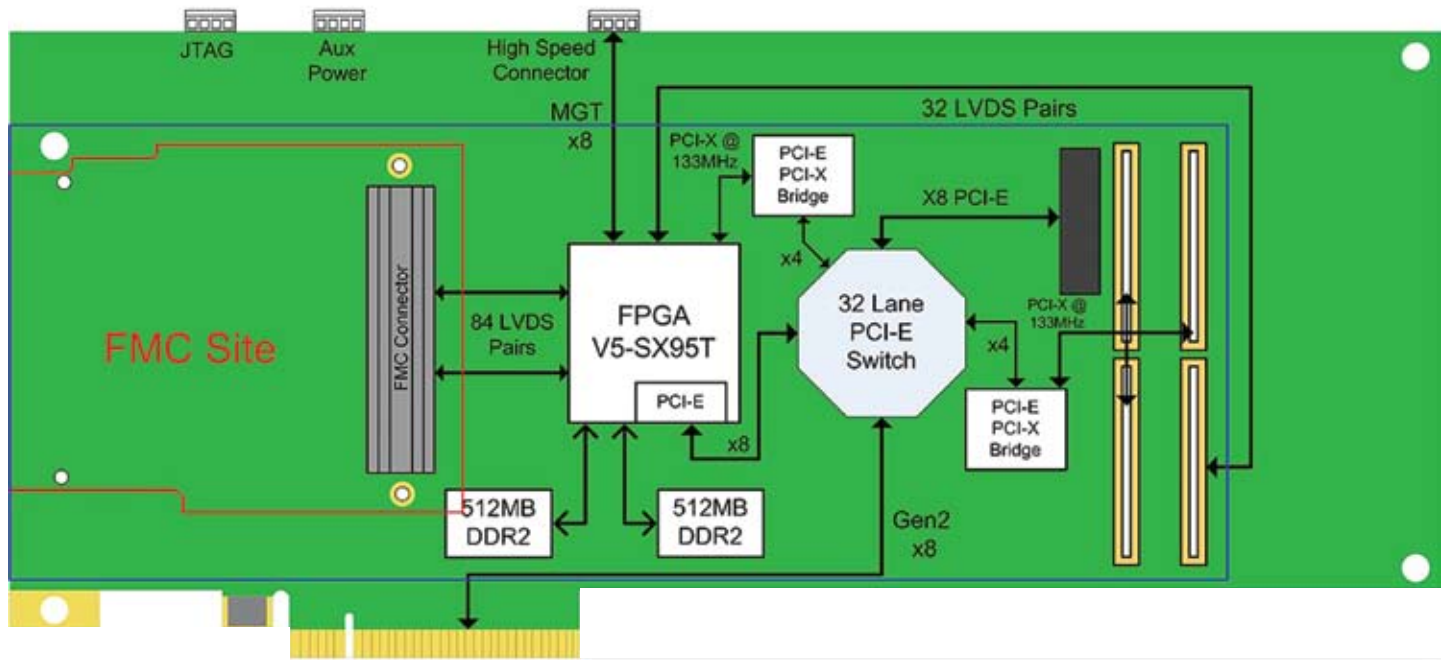
- Versatile carrier board
- High-performance data acquisition
- Powerful FPGA for DSP processing
- FPGA design kit available

Performance

- X8 PCI-Express Gen2 interface
- Sustains 3Gsps digital acquisition
- 4.8 GB/sec memory transfer rate
- PCI-X & LVDS for PMC connector



PCE-95M Block Diagram



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