PCIe-16HSAO2C

** In Development **

2-Channel, 16-Bit, 40 MSPS/Channel,

PCI Express Analog Output Board
With Multiple Ranges and 18-Bit Analog Input Channel

FEATURES:

- **Two wideband 16-Bit 40 MSPS analog output channels**
- **Single-ended or 3-Wire differential output configuration; software-selectable**
- **Common simultaneous or sequential output clocking rates from zero to 40 MSPS**
- **Software-selectable output ranges: ±3V, ±1.5V, ±0.75V, with ±10mA loading**
  Optional **±10V, ±5V, ±2.5V** ranges available, with reduced throughput and loading
- **512-Ksample capacity FIFO data buffer, with DMA support**
- **Software-controlled Outputs-Disconnect feature supports redundancy applications**
- **18-Bit 500-KSPS ±3V analog input channel**
- **Byte-wide digital I/O port**
- Local data packing provides maximum throughput
- Output clocking derived from internal rate generator or external source
- Direct 24-Bit division of master clock for rate generation, or internal PLL for high resolution timing
- Simultaneous or sequential output clocking
- Dynamic control of common output clocking rate
- Hardware clock and sync I/O for multiboard synchronization
- On-demand internal autocalibration ensures maximum accuracy under all Conditions
- Standard PCI Express short-card form factor
  (Expanded-capability version available in full-length PCI Express form factor. Also available in PMC, PC104 Plus, CPCI and standard PCI form factors. Contact Sales for details).

TYPICAL APPLICATIONS

- Arbitrary Waveform Generation
- Video Source
- Wideband Servo Loops
- Wideband Analog Outputs
- X-Y Axis Control
- Dynamic Test Systems

ADVANCE INFORMATION

REV: 110912