PCIe-20AOF4C500K

20-Bit 4-Output 500KSPS Precision Wideband
PCI Express Short-card Analog Output Board

With 8th-Order reconstruction output filters

Features Include:

- **Four 20-Bit analog output channels.**
- **Software-selectable output configuration: 2-Wire Single-ended or 3-Wire Differential**.
- **Simultaneous Clocking; Individual 20-Bit R-2R DAC per output channel.**
- **Clocking rates from zero to 500KSPS.**
- **Software-selectable fullscale output ranges: ±10V and ±5V.**
- **8th-Order reconstruction filter in each output channel.**
- **Optional Outputs Disconnect feature ensures quiet outputs during autocalibration and selftest operations. Software control. Adds 1-Ohm to R-out.**
- Remote ground sensing to minimize single-ended errors.
- On-demand autocalibration of all channels.
- 256K-sample output FIFO buffer.
- Internal sample rate generator with 24-Bit rate divider.
- Hardware trigger and clock I/O for multiboard synchronization.
- Eight Bidirectional digital TTL I/O lines.
- Conforms to PCI Express Specification revision 1.0a, single-lane.
- Standard PCI Express Short-card form factor.
- DMA Engine supports block-mode and demand-mode transfers in two DMA channels.

Applications:

- ✓ Precision Voltage Source
- ✓ Industrial Robotics
- ✓ Waveform Synthesis
- ✓ Audio Synthesis
- ✓ Sonar Projects
- ✓ Acoustic Research

***** PRELIMINARY *****

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