

## **CCVPX-16AO16**

**16-Channel 16-Bit High-Speed Conduction-Cooled 3U VPX  
Analog Output Board**  
*With 450,000 Samples per Second per Channel*

### **Features**

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- 16 precision 16-Bit high-speed analog output channels; D/A converter per channel
- Balanced 3-Wire differential outputs, or optional 2-wire single-ended outputs with remote ground sensing
- Front-panel system access
- 3U VPX form factor
- Data rates to 450K samples per second per channel
- Software-selectable output ranges of  $\pm 10V$ ,  $\pm 5V$ ,  $\pm 2.5V$  or  $\pm 1.25V$ ; optional  $\pm 20V$ ,  $\pm 10V$ ,  $\pm 5V$  differential output ranges
- 256K-Sample output data FIFO buffer; configurable as open or circular
- Conforms to PCI Express Specification revision 1.0a; x1 link operating at 2.5Gbps
- Two DMA channels available for buffer access in either block-mode or demand-Mode
- Simultaneous or channel-sequential output clocking
- Multiboard synchronization supported
- Continuous and burst (one-shot) output modes support seamless waveform sequencing
- Data rate controlled internally or externally
- Software-selectable differential clock I/O for synchronizing GSC sigma-delta A/D products
- High accuracy ensured by on-demand autocalibration

### **Typical Applications**

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|----------------------------|---------------------|-----------------------|
| ✓ Precision Voltage Source | ✓ Acoustic Research | ✓ Waveform Synthesis  |
| ✓ Audio Synthesis          | ✓ Process Control   | ✓ Industrial Robotics |

--- PRELIMINARY DRAFT ---

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