

# **General Standards Corporation**

**High Performance Bus Interface Solutions**

## *66-16A016C2M*

### **16-Channel 16-Bit High-Speed Analog Output Board**

*With 450,000 Samples per Second per Channel  
and 2-Megasample Buffer*

*--- In Development ---*

#### *Features Include:*

- **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**
- **Data Rates to 450K Samples per Second per Channel; 7.2 MSPS Aggregate Rate**
- **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**
- **2 Megasample Output Data FIFO Buffer; Configurable as Open or Circular**
- **Two DMA channels available for buffer access in either Block-Mode or Demand-Mode**
- Simultaneous or 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 Sigma-Delta A/D Boards
- High Accuracy Ensured by On-Demand Autocalibration of all Channels
- Single-width PMC module

#### *Applications Include:*

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

*PRELIMINARY*

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