

# General Standards Corporation

High Performance Bus Interface Solutions

## 66-16HSA08C

**\*\* In Development \*\***

### 16-Bit, 8-Channel, 4MSPS Analog Output Board

*With Software-Disconnectable Outputs*

Available in PMC, PCI, cPCI and PC104-Plus and PCI Express form factors as:

PMC66-16HSA08C:	PMC, Single-width
PCI66-16HSA08C:	PCI, short length
cPCI66-16HSA08C:	cPCI, 3U
PC104P66-16HSA08C:	PC104-Plus
PCIe-16HSA08C:	PCI Express
PCIe104P-16HSA08C:	PCIe, one-lane on PC/104 form factor

#### *Features Include:*

- Eight Precision 16-Bit analog outputs
- Software-configurable with either single-ended outputs or 3-wire balanced outputs
- Output clocking rates to 4M samples per second per channel with two channels active; to 2MSPS with eight channels active.
- Outputs software-disconnectable from loads; Supports redundancy applications
- R-2R DAC per Channel; No minimum clocking rate.
- Software-selectable ranges of  $\pm 10V$ ,  $\pm 5V$ ,  $\pm 2.5V$ .
- 66MHz PCI Bus support with Block-mode and Demand-mode DMA transactions
- 256K-Sample output data FIFO buffer; Configurable as open or closed (circular)
- Simultaneous or sequential output clocking
- Settling in 2us to 0.01 percent of half-scale step
- Multiboard synchronization supported
- Continuous and Triggered-Burst output modes support seamless waveform sequencing
- Data clocking rate controlled internally or externally
- High accuracy ensured by on-demand Autocalibration of all channels, with outputs disconnected during autocalibration.

#### *Applications Include:*

- |                            |                       |                       |
|----------------------------|-----------------------|-----------------------|
| ✓ Precision Voltage Source | ✓ Parallel Redundancy | ✓ Waveform Synthesis  |
| ✓ High Density Outputs     | ✓ Process Control     | ✓ Industrial Robotics |

#### ADVANCE INFORMATION

REV: 110812

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