

**ACCES I/O Products, Inc.**

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[www.accessio.com](http://www.accessio.com)**Model USB-DA12-8A**

Model USB-DA12-8A features eight independent 12-bit digital-to-analog converters and broadly configurable arbitrary waveform generation (ARB) capabilities. This module can be used in any PC or embedded system with a USB port and is an ideal choice for test and embedded system designers. Other convenient features include both single-ended and differential outputs for increased noise immunity, ARB status and control signals via external connections, and two DB25 industry-standard connectors. The unit is fully compatible with USB 2.0 ports, and hot-plug functionality allows for quick connect/disconnect. The OEM USB/104 version provides just the board without the enclosure and is ideal for a variety of embedded OEM applications – simply connect to any available USB port. The USB-DA12-8A can be used in an assortment of USB-based embedded applications including stimulus/response, test, simulation, industrial equipment control, and waveform/audio synthesis.

**FEATURES**

- › Independent 12-bit D/A converters per channel (8)
- › 32-bit counter for precisely timed outputs
- › DACs independently or simultaneously updated at up to 125K conversions per second
- › Streaming waveform data at over 400,000 DAC outputs per second
- › Buffered waveforms at up to 1 million DAC conversions per second
- › Analog output ranges of 0-2.5V, 0-5V, 0-10V,  $\pm 2.5V$ ,  $\pm 5V$ ,  $\pm 10V$
- › 128K sample buffer onboard
- › USB/104 form factor for OEM embedded applications features PC/104 module size and mounting compatibility
- › Type B USB connector features industrial strength and high-retention design

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