

Digilent AIO1 Peripheral Board

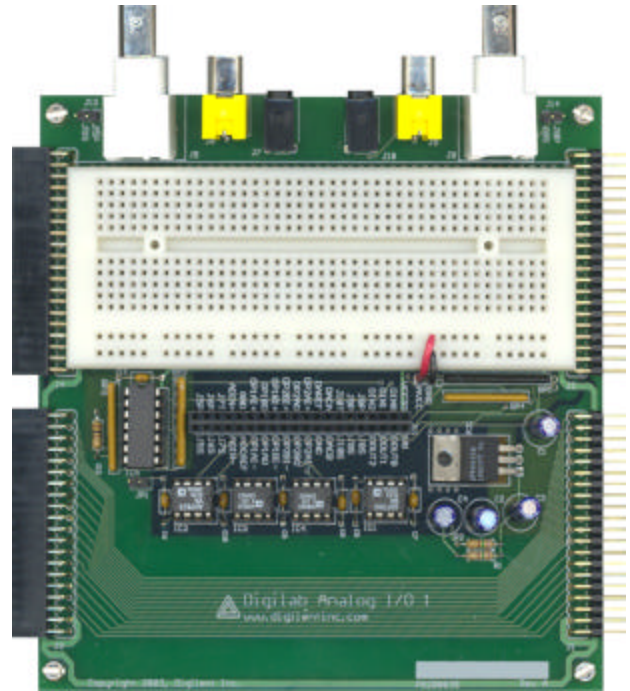


www.digilentinc.com

Revision: December 30, 2004
Ready-made platform for Analog I/O up to 1MHz for Digilent system boards

246 East Main | Pullman, WA 99163
(509) 334 6306 Voice and Fax

The AIO1 board provides a ready-made platform that can be used to bring signal processing capabilities to Digilent system boards. The AIO1 provides an 8-bit analog-to-digital converter (ADC) and a two-channel, 8-bit digital-to-analog converter (DAC). Both devices can run at up to 1MHz. The AIO1 also provides four op-amps that can be used to construct filter and gain networks for the ADC and DAC devices. All nodes of the op-amps are brought to connections that are readily accessible to breadboard circuits; so RC networks can be quickly constructed right on the board.



FEATURES AND BENEFITS

- An Analog Devices 7823 8-bit, 200KHz AD converter
- An Analog Devices 7303 8-bit, 1MHz DA converter
- Four Analog Devices AD822 Op-amps for gain and filter circuits
- On-board 5V supply for analog circuits
- Level-shifter for digital signals (5V to 3.3V)
- Eight common analog signals connectors
- An integral solderless breadboard where RC networks can be constructed around op-amps

APPLICATIONS

- Analog signal acquisition and DSP circuits at up to 1MHz, including the ability to quickly and easily construct pre-amp and anti-alias filters
- Analog-to-digital circuits at up to 1MHz

