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IXI1204

4 Channel 12-bit, 6.25 MHz A/D Converter

adilogo.gif (1914 bytes)

View Photo of IXI1204

Board Photo

View Architectural Diagram of IXI1204

Architectural Diagram

Features

- Four 25 MHz, 12-bit DACs
- 70 dB dynamic range
- Unipolar or bipolar outputs
- 4K deep FIFO
- Simultaneous sampling
  - 4 channels sample to 6.25 MHz
  - 2 channels sample to 12.5 MHz
  - 1 channel samples to 25 MHz

General Description

The IXI1204 is a standard IXI interface mezzanine designed for use with compatible IXZ baseboards for digital signal processing. It can generate up to 4 channels of high-resolution analog output. The IXI1204 has four digital-to-analog converters (DACs) that convert 12-bit data at 6.25 Msamples/s per channel. Samples for the four channels are interleaved into an output FIFO, that is 4k deep, and then updated simultaneously at each DAC. The DACs are Analog Devices AD9713 and provide very clean, linear conversions. The IXI1204 is useful for a variety of applications that include arbitrary waveform generation, sonar and synthetic sound, six-axis motor control, among other possibilities.

The board has three modes of signal generation: sequential data output, manual retransmit, and auto retransmit. The sequential data mode generates and sets voltage levels that change on initiation by the user. The sequential data mode is a one-pass operation that is a destructive read; before beginning a second round of output, you must write data to the FIFO. The manual retransmit generates an analog pulse or chirp. The manual retransmit mode does not read data destructively from the FIFO; it leaves the data intact for later reuse. The auto retransmit produces a continuous waveform much as an arbitrary waveform generator does. The auto retransmit mode does not read data destructively from the FIFO; it leaves the data intact for continuous reuse.

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