

SADA8/16-2 8-bit ADC/DAC

Both 8-bit A/D and 8-bit D/A conversion for STEbus systems are provided by the SADA8/16-2. In its standard form the A/D section provides 16 single-ended channels; these can be jumpered to provide eight differential channels. The A/D converter works in either 0 to 5.1V unipolar mode, or it can be jumpered for $\pm 5V$ bipolar input. Conversion time is 9msec and differential non-linearity is 0.5LSB. The twin-channel 8-bit D/A converter settles in 800nsec and offers a non-linearity of 0.5LSB.

Fast slew rate op-amps are used on the output, configured for unipolar output, gain ranges are from 0 to 5.1V. Analogue I/O is taken out through a Signal Conditioning Bus interface, so that the SCB range of analogue real-world interfaces including current-loop, isolators and semiconductor temperature sensors, can be simply connected.

Interface: STEbus slave interface.

Power consumption: Typ 0.4A @ 5V, 30mA @ $\pm 12V$

Ordering Information:

SAD8/16-2 ADC/DAC board

Features:

- Two 8-bit D/A channels with 800nS settling time
- Sixteen 8-bit A/D channels, 9 microsec conversion time
- Unipolar or bipolar operation
- Selectable gain from 0 to 5.1V
- Signal Conditioning Bus interface

