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Full-bridge ADC (voltage excitation, programmable analog gain, 6kHz b/w) – 8ch at 24ksps

Description

The KAD/ADC/109/S1 provides independent excitation for up to eight channels. Each channel has a separate programmable amplifier, programmable filter and A/D converter.

At the heart of the KAD/ADC/109/S1 is a hard-wired state-machine that over-samples all channels at a rate between 96ksps and 192ksps and digitally filters any noise above the user programmable cutoff frequency. This is achieved using cascaded, half-band, decimate by two, fifteen tap, finite-impulse-response (FIR) filters with 32-bit coefficients followed by an 8th order Butterworth IIR filter with a default cutoff point set at a quarter of the sampling frequency.

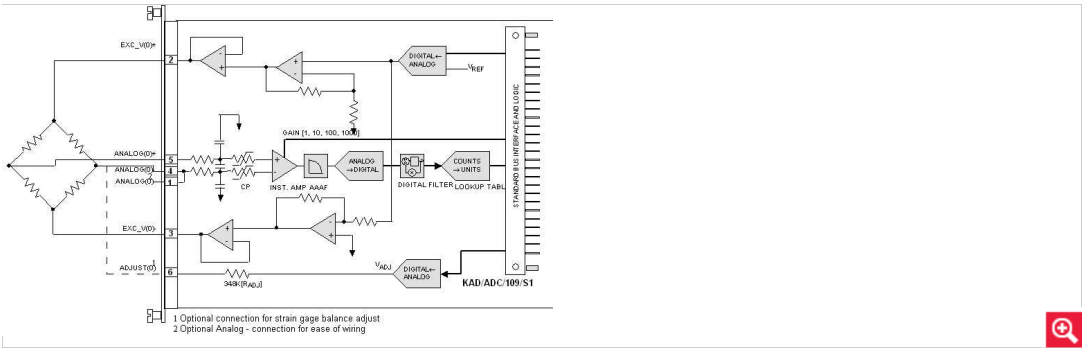
All signals are sampled simultaneously. Thus, when several channels are sampled at different sampling rates, at the start of an acquisition cycle all channels will be aligned.

Features

- Eight full or ½-bridge, potentiometer or differential ended (D/E) input channels
- 16-bit simultaneous sampling on all channels
- High accuracy
- Programmable excitation, balance current and range per channel
- 8th order Butterworth filter with programmable cutoff frequency per channel
- Short to ground on any channel does not affect others
- Bipolar excitation and balancing before instrumentation amplifier
- Up to 24,000 samples per second per channel
- Up to 6kHz bandwidth
- Enhanced mechanical strength between motherboard and daughterboard
- High impedance per channel when powered off

Applications

- Bridge sensors
- Differential voltage measurement
- Strain gage measurement



First of eight channels on the KAD/ADC/109/S1

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