

4-Channel Charge Amplifier Card with Programmable Digital Filtering & Simultaneous Sampling



Applications

- Flight test instrumentation
- Factory automation and process control
- Piezoelectric transducers, accelerometers, microphones, ...
- Research measurements and experiments and constant current

Features

- 4-channels per module
- Simultaneous sampling capability
- Programmable digital FIR or IIR presample filtering
 - Software selected FIR filters; 120, 90, 60 and 40 taps
 - 120 tap FIR filter provides comparable response to 12-pole Butterworth Filter
 - Software selected IIR filters; 6-pole and 8-pole Butterworth, 6-pole Bessel and 6-pole Chebyshev
 - Automatic adaptive filter based on format sample rate
 - Analog anti-aliasing filter
- Programmable input range
 - >10,000 settings from $\pm 11,000$ to $\pm 137\text{pC}$ Full Scale
- Programmable offset
- >1,000 Megohms input impedance (power on)
- $\pm 0.5\%$ system accuracy
- Compatible with TTC's miniature data acquisition products
- Microsoft Windows application software included

Description

The MCAS-104D is an 4-channel signal conditioning module for use in TTC's miniature, stackable data acquisition products. The module is intended for applications that require significant signal conditioning flexibility and simultaneous sampling capability. The module provides programmable digital presample filtering and user-programmable gain. The conditioned analog signal is digitized at up to 16-bit resolution for transmission in the system data output format.

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MCAS-104D Datasheet

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