

## 4-Channel Signal Conditioning Module w/Simultaneous Sample Capability, Thinning Function and Constant Voltage Excitation



### Applications

- Flight test instrumentation
- Factory automation and process control
- Accelerometers
- Research measurements and experiments

### Features

- 4 channels per module
- Simultaneous sample capability
- Thinning function
- Phase matching
- Presample filtering
  - 6-pole Butterworth filter
  - Programmable, 360 Hz or 2390 Hz
- 1-pole HPF at 1.5Hz (-3db)
- Programmable gain and offset
  - Gains from 1 to 2,000
  - >10,000 unique settings
- Active offset correction (AC coupled mode)
- Zero and voltage substitution cal
  - Auto zero/zero-cal on power up
- >1,000 Megohms input impedance (power on)
- $\pm 0.5\%$  system accuracy
- $\pm 35\text{VDC}$  overvoltage protection
- Microsoft Windows application software included

### Description

The MSCD-404T is a 4-channel plug-in signal conditioning module for use in TTC's miniature programmable DAU products (MxDAU-2000). The module is intended for applications that require significant signal conditioning flexibility and simultaneous sampling capability. The module provides constant voltage excitation, programmable presample filtering, calibration, and programmable gain. All modules having the same cut-off frequency are phase matched to  $\pm 1$  degree up to 0.21fc. The conditioned analog signal is digitized at up to 12-bit resolution for transmission in the system PCM output format.

The MSCD-404T also provides a software programmable "thinning function" where the simultaneous sample rate can be reduced in binary increments on a per module basis.

Revision 05/12/2015

### MSCD-404T Datasheet

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Specifications subject to change without notice.

Approved for Public Release 16-S-0897



CAIS  
Compatible



Management  
System  
AS9100C  
ISO 9001:2008

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