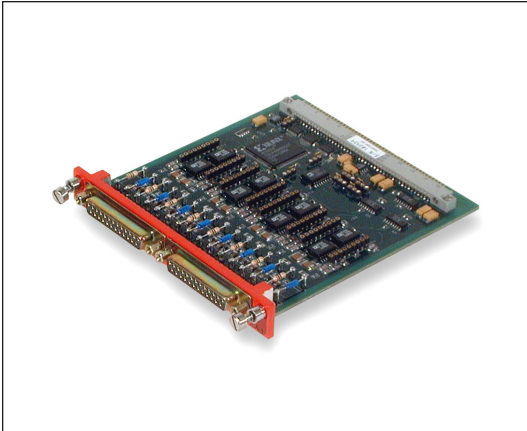


### 8-Channel Signal Conditioning Card w/Voltage Excitation



#### Applications

- Flight test instrumentation
- Factory automation and process control
- Strain gages, load cells, pressure transducers, ...
- Research measurements and experiments

#### Features

- 8 channels per card
- Selectable presample filtering
  - 6-pole Butterworth filter
- Bridge or potentiometer inputs
  - Full bridge configuration (4-arm)
- Programmable voltage excitation
- Programmable gain and offset
  - 4 card gains from 1 to 1,000
  - 8 chassis gain settings
- Zero, Rcal and voltage substitution calibration
- >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 SCD-108A is an 8-channel plug-in signal conditioning card for use in TTC's EDAU-20XX and CDAU-20XX products. The card is intended for signal conditioning applications that require constant voltage excitation, user-selectable presample filtering on a per-channel basis, calibration and user-programmable gain. The conditioned analog signal is digitized at up to 12-bit resolution for transmission in the system PCM output format.

Revision 11/12/2012

#### SCD-108A Datasheet

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 Specifications subject to change without notice.

Approved for Public Release 13-S-2853



CAIS  
Compatible



Management  
System  
AS9100C  
ISO 9001:2008

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