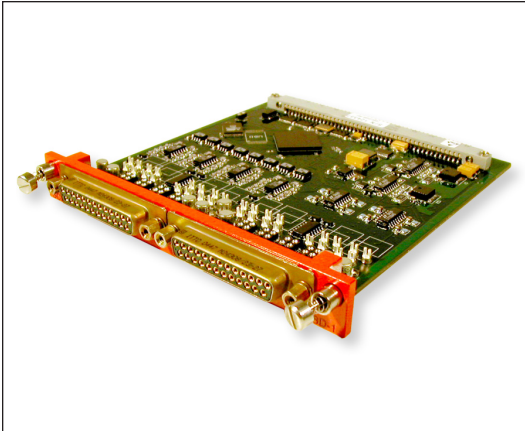


## 8-Channel Signal Conditioning Card - Voltage & Current Excitation, Programmable Digital Filtering & Simultaneous Sampling



### Applications

- Flight Test Instrumentation
- Factory Automation and Process Control
- Strain Gages, Load Cells, Pressure Transducers, ...
- Research Measurements and Experiments and Constant Current

### Features

- 8-Channels per Card
- Simultaneous Sampling Capability
- Programmable Presample Filtering
  - 32 Tap finite-Impulse Response (FIR) Filters
  - Approximates 12 Pole Butterworth Filter
  - Stop Band Attenuation of 85db
  - Analog Anti-Aliasing Filter
  - Automatic Adaptive Filter
- Bridge or Potentiometer Inputs
  - 1/4, 1/2, 3/4 and Full Configurations
  - On card Completion of up to 3 Arms
- Programmable Voltage Excitation
- Constant Current Excitation
- Programmable AC or DC Input Coupling
- Programmable Gain and Offset
  - >10,000 settings from 1 to 2,000
- Zero, Rcal and Voltage Substitution Calibration
- >1,000 Megohms Input Impedance (Power On)
- $\pm 0.5\%$  System Accuracy
- Automatic parasitic offset correction on power-up and ZCAL. This feature can be disabled.
- $\pm 35\text{VDC}$  Overvoltage Protection
- Compatible with WDAU-20XX operating to 20Mbps
- Windows 95/98/NT/2000 Software Included

### Description

The SCD-608D 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 applications that require significant signal conditioning flexibility and simultaneous sampling capability. The card provides constant voltage and constant current excitation, programmable digital presample filtering, calibration, and user-programmable gain. The conditioned analog signal is digitized at up to 16-bit resolution for transmission in the system PCM output format.

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### SCD-608D Datasheet

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