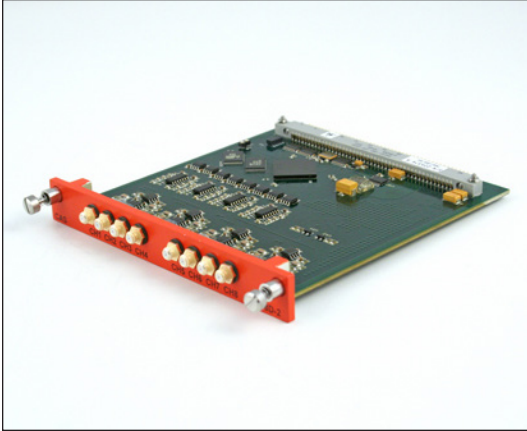


### 8-Channel Charge Amplifier Board with Programmable Digital Filtering & Simultaneous Sampling



#### Applications

- Flight test instrumentation
- Factory automation and process control
- Piezoelectric transducers, accelerometers, microphones, ...
- Research measurements, 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
- 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
- $\pm 35\text{VDC}$  overvoltage protection
- Compatible with WDAU-20XX operating to 20Mbps
- Microsoft Windows application software included

#### Description

The CAS-108D is an 8-channel plug-in signal conditioning board for use in TTC's EDAU-20XX and CDAU-20XX products. The board is intended for applications that require significant signal conditioning flexibility and simultaneous sampling capability. The board 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 PCM output format.

Revision 07/07/2011

#### CAS-108D Datasheet

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 Specifications subject to change without notice.

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CAIS  
Compatible



Management  
System  
AS9100C  
ISO 9001:2008

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