

42-Channel, Single Ended Analog Multiplexer Card



Applications

- Flight test instrumentation
- Factory automation and process control
- Batteries, signal conditioned signals, ...
- Research measurements and experiments

Features

- 42-channel card (voltages, pre-conditioned analog)
- Compatible with EDAU/CDAU-20XX System
- Per-channel attenuation (factory set)
- Software programmable per-channel card gain of 1 or 1.5
- Software programmable overhead gain and offset
- $\pm 0.5\%$ system accuracy
- Zero calibration and voltage substitution
- 1,000 Megohms input impedance
- ± 35 VDC overvoltage protection
- Microsoft Windows application software included

Description

The AMS-142A is a 42-channel analog multiplexer card for use in TTC's EDAU/CDAU-20XX series products. The card directly accepts analog signals from high-level sensors, batteries, system voltage sources, and other low bandwidth analog signals that do not require very high gains and do not require presample filtering. Each channel provides front-end overvoltage protection, front-end attenuation provisions (factory set/ user-specified), 2-pole active noise filtering, ZCAL and Vsub calibration and user-programmable gain. The host chassis provides additional gain/offset programmability on a per-channel basis. The conditioned analog signal is digitized at up to 12-bit resolution for transmission in the system PCM output format.

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AMS-142A Datasheet

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Teletronics Technology Corporation
15 Terry Drive, Newtown, PA 18940
phone: 267.352.2020 fax: 267.352.2021 Sales@ttcdas.com

www.ttcdas.com