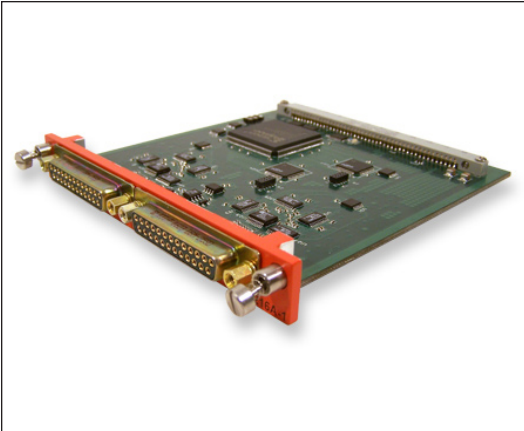


## High Speed 16-Channel Thermocouple Conditioner Card with Reference Junction Compensation



### Applications

- Flight Test Instrumentation
- Factory Automation
- Engine Testing, Aerodynamics Testing

### Features

- 16-Channels per Card
- Two user-selectable Data Update rates
  - 250 updates/sec. and
  - 1000 updates/sec.
- High Resolution
  - 16-Bit resolution @ 250 updates/sec.
  - 12-Bit resolution @ 1000 Hz updates/sec.
- True Real-time Linearization
- Compatible with Types:
  - J, K, E & T — 001
  - J, K, C & T — 002
- Programmable on Per-Channel Basis
- Mixed Types in the Same Module
- Programmable Measurement Range
  - Full ANSI Range (Full Scale),
  - ANSI Range / 2 (Half Scale) or
  - ANSI Range / 4 (Quarter Scale)
- Programmable Sliding Fine Range (Range min/max)
- $\pm 0.3\%$  System Accuracy
- $\pm 35\text{VDC}$  Overvoltage Protection
- Open Thermocouple Detection
- Windows XP/2000 Software Included

### Description

The TCD-216A is a 16-channel plug-in signal conditioning card for use in TTC's EDAU/CDAU/ WDAU-2000 products. The card is intended for applications that require high speed and high performance thermocouple signal conditioning, true real-time linearization, and compatibility with ANSI thermocouple types J, K, E or C and T, all within a single card. Each card is provided with (2) 8-channel RJC-108's, Reference Junction Compensator units. Thermocouple data is digitized to 16-bit resolution at a channel update rate of 250 Hz or 12-bit resolution at a channel update rate of 1000 Hz for transmission in the system PCM output format.

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### TCD-216A Datasheet

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