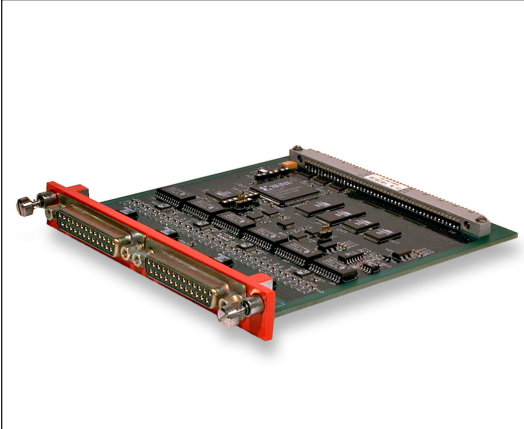


## 16-Channel Differential RMS Converter Card



### Applications

- Airborne Instrumentation
- Factory Automation and Process Control
- Measurement of Analog Signals
- Research Measurements and experiments

### Features

- RMS to Digital Converter
- 16 Channels per Card
- AC/DC Input Coupling
  - Active offset correction in AC coupled mode
- 3600 software programmable gains per channel
- Four software programmable Crest Factor settings
- Four software programmable sample update rates

### Description

The RMS-116A is a 16-channel differential RMS to digital converter card for use in TTC's EDAU-20XX or CDAU-20XX series products. The card can accept voltages from various system sources including sensors, transducers and other pre-conditioned analog voltages. It digitizes the input voltage, performs the RMS calculation and encodes these signals into data words for transmission in the system PCM output format. Each channel has software programmable gain in the range of 1 to 10, software programmable AC or DC input coupling, four software programmable sample rates and four software programmable crest factor settings. There are also three status bits that alert the user to a math overflow in the crest factor calculation, an over-range condition on the ADC, and an under-range condition on the ADC. Additionally the the RMS-116A card can output the RAW data from the ADC into the PCM stream.

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### RMS-116 Datasheet

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