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## M393 8 Channel Differential ADC M Module

The M393 differential mode ADC is very well suited for use in applications where autonomous signal conversion is required. A local DSP provides processing capabilities to scan all channels at maximum rate, perform gain/offset compensation and store results in dual-ported memory. The current input version of this module range is 0 to 20mA and the voltage version's range is software programmable. Channels may be enabled or disabled individually.

## Specifications:

#### **General Characteristics:**

Input Types: Voltage or Current Resolution: 12 bit or 16 bit Accuracy: 0.1% for V, 0.5% for I

Conversion Rate: to 50 Ksps

(Software programmable)

Input Filters: 2 pole LP, 1 KHz
Programmable Moving Avg Filter

Dual Ported Results Memory

Optically Isolated Analog Section

Calibration Data Stored Onboard

**Connector:** 25 pin DSUB (Female)

#### Temperature:

Operating: 0°C to 60°C Storage: -20°C to 70°C

**Power:** +5V @ 0.85 A with DC/DC

+5V @ 0.25 A w/o DC/DC

# Software Programmable Voltage Input Ranges:

Unipolar: 0 to 5 V 0 to 10 V

Bipolar: +/-5 V +/-10 V

Fixed Current Range: 0 to 20 mA

All enabled channels are converted continuously and conversion data is read from shared memory by host

#### **Configuration Options**

12 bit V w/o DC/DC	n=1
12 bit V with DC/DC	n=2
12 bit I w/o DC/DC	n=3
12 bit I with DC/DC	n=4
16 bit V w/o DC/DC	n=5
16 bit V with DC/DC	n=6
16 bit I w/o DC/DC	n=7
16 bit I with DC/DC	n=8

## **M Module Compliance**

Complies with ANSI/VITA Std 12-1996 for single-wide M Modules.

Data Transfers 16 bit Interrupts INTA

**IDENT** supported

Compatible with VXI, VME, PCI, PXI, CPCI & Ethernet Carriers

## **Applications**

- Autonomous Signal Conversion
- · Mid-range data acquisition

## **Ordering Information**

Part Number 11029660-000n where n is defined in the table at left

### **Additional Information**

User Manuals for C&H carriers and this module can be found on our website at www.chtech.com.