

## Specifications:

| General Characteristics: |  |
| :---: | :---: |
| Input Types: | : Voltage or Current |
| Resolution: | 12 bit or 16 bit |
| Accuracy: | 0.1\% for V, $0.5 \%$ for I |
| Conversion (Sof | Rate: to 50 Ksps ftware programmable) |
| Input Filters: | : 2 pole LP, 1 KHz |
| Programmab | ble Moving Avg Filter |
| Dual Ported | Results Memory |
| Optically Isol | lated Analog Section |
| Calibration D | Data Stored Onboard |
| Connector: | 25 pin DSUB (Female) |
| Temperature: |  |
| Operating: | $0^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}$ |
| Storage: | $-20^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$ |

Power: $\quad+5 \mathrm{~V} @ 0.85$ 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: $+/-5 \mathrm{~V}$

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+/-10 \mathrm{~V}
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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 $D C / D C$ | $n=1$ |
| :--- | :--- |
| 12 bit $V$ with $D C / D C$ | $n=2$ |
| 12 bit I w/o $D C / D C$ | $n=3$ |
| 12 bit I with $D C / D C$ | $n=4$ |
| 16 bit $V$ w/o $D C / D C$ | $n=5$ |
| 16 bit $V$ with $D C / D C$ | $n=6$ |
| 16 bit I w/o DC/DC | $n=7$ |
| 16 bit I with $D C / D C$ | $n=8$ |

## M393 <br> 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 20 mA and the voltage version's range is software programmable. Channels may be enabled or disabled individually.

## M Module Compliance

Complies with ANSI/VITA Std 121996 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.

