



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.

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.

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