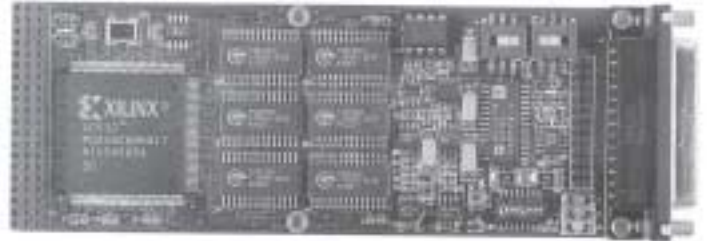


This product is manufactured by C&H Technologies, Inc. and exclusively distributed by Racal Instruments, Inc.

Aperture A/D MA-Module Model MA200

The MA200 is a 100 kS/s 12-bit A/D converter module that will sample and selectively store differential analog signals together with a 31-bit time stamp at a rate up to 100 kS/s. The 31-bit time tag allows almost six hours of uniquely time tagged data, at a resolution of 10 μ s, to be stored by the host. The module has the ability to convert and store all data at the specified sample rate or selectively store input values that exceed the range of the programmed aperture window. This technique provides extensive real-time data compression for transient type input signals.



SPECIFICATIONS

A/D Resolution

12 bits

Conversion Rate

Up to 100 kHz

Integral Nonlinearity

± 1 LSB

Full Scale Input

± 5 V or ± 10 V (Differential)

Input Modes

Unipolar: 0-10 V
Bipolar: ± 5 V or ± 10 V

Input OVP

± 40 V (minimum)

Input Impedance

10 M Ω

Local Memory

32 k x 48-bits

Common Mode

Voltage Range: ± 13 V (min.)
Rejection Ratio: 70 dB (DC-1 kHz)

Sampling Strobe

Internal: 10 kHz or 100 kHz
Front Panel: up to 100 kHz
Host Carrier : up to 100 kHz

I/O Connector

(a) 25-pin D-sub
(b) Via carrier

Calibration

Software programmable trim
resistors for offset and full scale

Temperature

Operating: 0° C to 50° C
Storage: -40° C to 70° C

Power

+5 V @ 100 mA
+12 V @ 20 mA
-12 V @ 20 mA

Anti-Aliasing Filter

Order option AM102

M-Module Compliance

Complies with ANSI / VITA Std. 12-1996 for single MA-Modules
Data Transfers: 16-bit
Interrupts: INTC
Triggers: TRIGI

Applications

Acquisition of transient signals
Real-time data compression
General A/D conversion

Ordering Information

Part Number: 11027860-0001
AM102: 11027980-0001