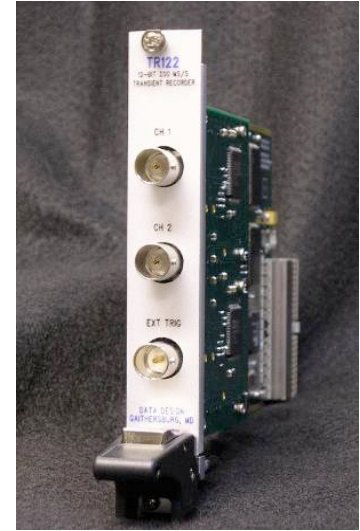


- 200 MS/s sample rate.
- 12-Bit resolution.
- Two million sample static memory per channel.
- 100 MHz bandwidth.
- Low noise operation.
- 1 MΩ Input Impedance.
- Input ranges ±0.5 volts to ±250 volts in 9 ranges.
- Full scale offset adjustment.
- Analog triggering from either channel or external trigger.
- Programmable post trigger sample count.



## Overview

The MH-TR122 Transient Recorder is a high performance two-channel transient waveform-digitizing instrument in a single slot 3U CompactPCI module, capable of digitizing to 12 bits at rates up to 200 MS/s on each channel independently. Each channel includes an independent analog front end and analog-to-digital converter, providing superior inter-channel isolation and full bandwidth availability on all channels. The MH-TR122 and included software provide a turnkey transient measurement solution, while included software source code and drivers provide powerful system level integration options.

## Specifications

### Dataway Interface

CompactPCI at 32 Bits and 33 MHz  
Compliant With PICMG 2.0 R3.0  
Single Width 3U CompactPCI Card

### Sample

200 MS/s All Channels  
100 MHz Bandwidth

### Input Channel Architecture

2 Independent Analog Signal Inputs  
1 External Trigger Input

### Analog Input Characteristics

Single Ended DC or AC Coupled  
Full Scale Offset 10-Bit Resolution  
1 MΩ 20 pF or 50 Ω Impedance

### External Trigger Input

Single Ended DC Coupled  
1 KΩ 20 pF

### Ambient Temperature Range

0 to 70 C

### Memory

2 MSample Per Channel  
64 KSample Minimum Block Size  
Configurable Segmenting

### Input Sensitivity

12-Bit Resolution  
1-500 Volts Full Scale in 9 Ranges  
0.05% Accuracy (10 LSB)  
80 dB Minimum Inter-channel Isolation

### Input Withstand Rating

1 MΩ Input at 250 VDC  
50 Ω Input 4 Watts (14 Volts RMS)

### Trigger Input Sources

External -10V to +10V 10-Bit Resolution  
Channel Greater Than Full Scale Range