

(512) 733-2621 • FAX (512) 733-2629 • www.chtech.com

#### CAUTION

This product requires a PXI/cPCI Chassis with replaceable card guides per the Eurocard mechanical specification



# Overview:

Number of Channels: 1 or 2

A/D Resolution: 12-Bit

Conversion Rate: 100KHz

Integral Nonlinearity: ±1LSB

## Input Specifications:

### **Input Common Mode:**

Voltage Range ±13V (min) Rejection Ratio 70dB (DC-1KHz)

#### Anti-Alias Filter:

Programmable 160Hz to 48KHz Filter Type 6<sup>th</sup> order butterworth Attenuation rate 120dB/decade

#### **Local Memory:**

32K x 48 (31-bit timestamp)

## Sampling Strobe:

Internal: 10KHz or 100KHzFront Panel: up to 100KHz

Host carrier: up to 100KHz

#### Interrupts:

- Data Stored
- FIFO Half-Full
- FIFO Full

#### I/O Connector:

• 25-pin DSUB

### Power: (-0001/-0002)

+5V 500mA / 600mA +12V 20mA / 40mA -12V 20mA / 40mA

# **Temperature**

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

# Ordering Information Part Number

Single Channel 11029190-0001 Dual Channel 11029190-0002

# PX452S PXI Aperture A/D

The PX452S is a one or two channel 12-bit A/D converter 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 µs, 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 programmed of the aperture window. This technique provides extensive real-time data compression for transient type input signals.

# **CPCI/PXI** Compliance

Complies with PCI spec. 2.0 R3.0 and PCI spec 2.2

5V and 3.3V signaling voltage (VIO) supported

5V only power supply

33MHz PCI data bus

Five trigger lines compliant with PXI Specification 2.1

Form Factor: Size 3U

# **Applications**

- Acquisition of transient signals
- Realtime data compression
- General A/D Conversion

# Additional Information

User Manuals and drivers for C&H modules can be found on our website at www.chtech.com.