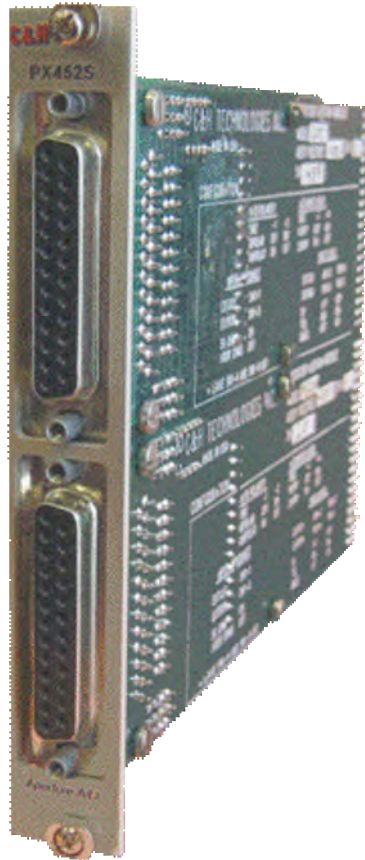




CAUTION
This product requires a PXI/cPCI Chassis with replaceable card guides per the Eurocard mechanical specification



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 of the programmed aperture window. This technique provides extensive real-time data compression for transient type input signals.

Overview:

Number of Channels: 1 or 2

A/D Resolution: 12-Bit

Conversion Rate: 100KHz

Integral Nonlinearity: ±1LSB

Input Specifications:

Full Scale Input ±5V or ±10V diff.
Modes Unipolar/Bipolar
OVP ±40V (min)
Impedance 10MΩ
Hysteresis 25mV

Input Common Mode:

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

Anti-Alias Filter:

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

Local Memory:

32K x 48 (31-bit timestamp)

Sampling Strobe:

- Internal: 10KHz or 100KHz
- Front 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

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.