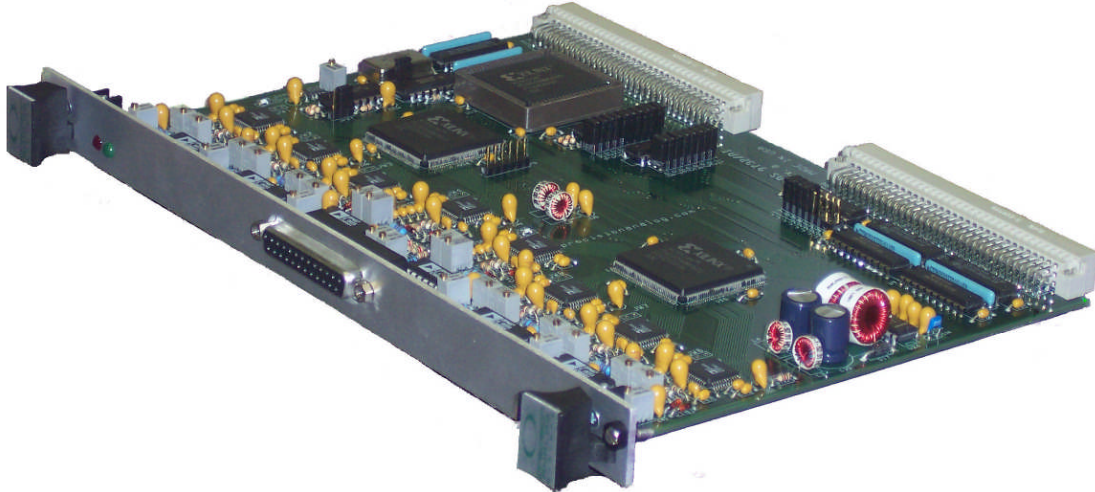


# PAS 9732/AI

## 8 Channel 14 Bit VME Analog Input Card



### GENERAL DESCRIPTION

The **PAS 9732/AI** is a VME based, eight channel, 14 bit, 3 MHz per channel, Analog Input Card. This card can be used in VME systems with A16, A24, or A32 addressing, and data bus widths of 16 and 32 bits are supported. Jumper plugs are used to configure the width of the address and data buses. Eight high speed Analog to Digital Converters (ADCs) with 3 MHz conversion rates continuously scan the analog input signals, which are connected to a 25 pin D connector mounted through the front panel. A board identifier PROM, test registers, and a control register are also provided.

## Electrical Specifications

<b>Number of Channels</b>	8
<b>Resolution</b>	14 bits
<b>Input Voltage Ranges</b>	0 to +10 Volts or +/- 10 Volt
<b>LSB bit weight</b>	610 uV (0 to 10 Volt version) 1.22 mV (+/- 10 Volt version)
<b>Conversion Time</b>	333 nSec, continuous on all channels
<b>Integral Nonlinearity</b>	+/- 2.5 LSB (typ)
<b>Differential Nonlinearity</b>	+/- 0.6 LSB (typ)
<b>Zero Error</b>	+/- 2 LSB (adjustable to zero)
<b>Gain Error</b>	+/- 0.01% FSR (adjustable to zero)
<b>Gain TC</b>	50 ppm/C (typ)
<b>Common Mode Rejection Ratio</b>	80 dB (typ) DC to 60 Hz
<b>Card Power Requirements</b>	5 Volts @ 2 Amps (typ), 3 Amps (max.)

## Additional Features

8 channel, 14 bit Analog Input Card  
0 to 10 Volt and +/- 10 Volt versions available  
3 MHz per channel continuous sampling on all channels  
VME 6U form factor; 233 mm x 160 mm card size  
VME access: D32, D16; A32, A24, A16  
Right justified sixteen bit integer data  
Digital input looks like contiguous memory  
Channel zero input data on 64 bit boundary  
Optional VME SYSFAIL assert on power up, SYSFAIL LED and Board Access LED on front panel

## Environmental Specifications

<b>Operating Temperature Range</b>	0 to 60 degrees C, w/forced air-cooling
<b>Storage Temperature Range</b>	-20 to 85 degrees C.
<b>Relative Humidity Range</b>	0% to 80%, non-condensing

## Physical Specifications

<b>Dimensions</b>	Form factor: Double (160 mm x 233 mm)
<b>Weight</b>	12 oz. (typ)
<b>Connectors</b>	2 ea. 96 pos. DIN (VME bus) 1 ea. DB25 female (Analog Input)



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