# PC104-30H

## PC/104 High-Speed (833KHz) Analog Input

833 KHz | 12 bit

## DESCRIPTION

The new **PC104-30H** is a single input high speed analog input board for the PC104 bus. It is ideally suited for use in embedded systems when combined with a PC/104 or PC/104-compatible CPU board.

Typical applications include high speed analog sampling in the medical, industrial, military and test equipment fields. The board allows data transfer via slave DMA, interrupts or polled I/O. Operation is 5VDC only.

Each board comes supplied with an extensive free software developer's kit with support for WindowsXP/NT/2000. Linux and VXWORKS support is also available.

**SIP-3M**

| | | |
|---|---|---|
| 1 | AIN- | Analog input negative |
| 2 | AGND | Analog input negative |
| 3 | AIN+ | Analog input positive |

**Shielded Cable** (Supplied)

## Specifications

| Analog Characteristics | |
|---|---|
| Number of channels: | 1 |
| ADC Resolution: | 12-bit |
| Input Voltage Range: | ± 5.0V Maximum |
| Input Bandwidth: | 3MHz |
| Input Impedance: | Differential 24K ohm |
| | Common Mode 18K ohm |
| Maximum Sampling Frequency: | 833 KHz |
| Minimum Sampling Frequency: | 610 Hz |
| Accuracy (after calibration): | ± 1 LSB |
| Power Consumption: | 5V @ 100mA maximum |
| PC104/ISA Clock Frequency: | 8 MHz ±10% |

## FEATURES

- 16 Opto-Isolated Inputs (Up to 28VDC/AC)
  - 2500V (max.) Isolation Voltage
  - Up to 24VDC voltage protection for isolation channel
  - Inputs can accept DC & AC
  - Frequency response up to 10kHz
- 16 Reed-Relay Outputs
  - 1500V (max.) Isolation Voltage
  - Relay switching speed up to 0.25mS
  - Load switching up to 3W
- PC/104PLUS 32-bit interface
- 5VDC only operation
- Windows98/ME/2000/XP/NT OS Support
- Linux OS Support
- -20° to +85°C Operating temperature

## Ordering Information

| Supplied with EDR Enhanced Software | |
|---|---|
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