



勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

**Features:**

- ▶ 32-bit PCI-Bus
- ▶ 12-bit analog input resolution
- ▶ On-board A/D FIFO memory
- ▶ Auto-scanning channel selection
- ▶ Up to 110Khz A/D sampling rates
- ▶ 16 single-ended or 8 differential analog input channels
- ▶ Bipolar or unipolar input signals
- ▶ Programmable gain of x0.5, x1, x2, x4
- ▶ On-chip sample & hold
- ▶ Two 12-bit monolithic multiplying analog output channels
- ▶ 8 digital output channels
- ▶ 8 digital input channels
- ▶ 3 independent programmable 16-bit down counters
- ▶ Three A/D trigger modes: software, programmable pacer, and external pulse
- ▶ Integral DC-to-DC converter for stable analog power source
- ▶ 37-pin D-type connector for PCI-9112

**Specifications:**

**Analog Input (A/D)**

- ▶ Converter : ADS774 or equivalent, successive approximation type
- ▶ Resolution : 12-bit
- ▶ Numbers of Input Channel: 16 single-ended or 8 differential
- ▶ Input Range : (Software controlled)
  - Bipolar :  $\pm 10V, \pm 5V, \pm 2.5V, \pm 1.25V$
  - Unipolar :  $0\sim 10V, 0\sim 5V, 0\sim 2.5V, 0\sim 1.25V$
- ▶ Conversion Time: 8 m sec
- ▶ Throughput: 110KHz multiplexing (maximum)
- ▶ Analog Input Over-voltage Protection: Continuous  $\pm 35V$  max.
- ▶ Accuracy:
  - ▶ GAIN = 0.5, 1 0.01% of FSR  $\pm 1$  LSB

Gain = 2, 4 0.02% of FSR  $\pm$ 1 LSB

Gain = 8 0.04% of FSR  $\pm$ 1 LSB

- ▶ Input Impedance: 10 MW
- ▶ Trigger Mode: Software, Timer Pacer, and External trigger
- ▶ Data Transfer Modes: Bus mastering DMA, Program control, Interrupt
- ▶ FIFO Depth: 8 words for PCI-9112, 2K words for cPCI-9112 only

### Analog Output (D/A)

- ▶ Numbers of output : 2 double-buffered analog output channel
- ▶ Resolution : 12-bit
- ▶ Output Range : Internal Reference: (unipolar) 0~5V or 0~10V  
: External Reference: (unipolar) max. +10V or -10V
- ▶ Converter : DAC2815 or equivalent, monolithic multiplying
- ▶ Settling Time : 30 m sec
- ▶ Linearity :  $\pm$ 1/2 bit LSB
- ▶ Output Driving Capability : 5mA max.

### Digital I/O (DIO)

- ▶ Numbers of channels : 8 TTL compatible inputs and outputs
- ▶ Input Voltage:
  - Low ▶ : Min. 0V. Max. 0.8V
  - High ▶ : Min. +2.0V
- ▶ Input Load:
  - Low ▶ Low: +0.5V @ -0.2mA max.
  - High ▶ High: +2.7V @ +20mA max.
- ▶ Output Voltage:
  - Low ▶ : Min. 0V; Max. 0.4V
  - High ▶ : Min. +2.4V
- ▶ Driving Capacity:
  - Sink current ▶ : 24 mA ( Max. )
  - Source current ▶ : 15 mA ( Max. )

### Programmable Counter

- ▶ Timer / Counter Device : 8254
- ▶ A/D pacer timer : 32-bit timer with a 2MHz time base
- ▶ Pacer Frequency Range : 0.00046 Hz ~ 100K Hz.
- ▶ Counter : One 16-bit counter with a 2MHz time base

### Software:

- ▶ Software Toolkit (DLL, Activex) for Windows 98/2000/NT/XP
- ▶ Software Toolkit for Labview, Intouch

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## General Specifications:

- ▶ Connector : 37-pin D-type connector
- ▶ Operating Temperature : 0° C ~ 60° C
- ▶ Storage Temperature : -20° C ~ 80° C
- ▶ C Humidity : 5 ~ 95%, non-condensing
- ▶ Power Requirement : +5 V @ 460 mA typical
- ▶ Dimension :: 102mm(H) X 173mm(L)

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