



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:

- ▶ 16channels single ended input or 8 channels differential input
- ▶ 12-bit 25usec A/D converter (option 12 usec versions)
- ▶ Up to 40KHz (optional 90KHz) sample rate through DMA mode operation
- ▶ A/D trigger mode: polled, interrupt, DMA mode, or ext. trigger by software
- ▶ Programmable gains: 1,10,100,or 500u Software programmable interrupt level
- ▶ Software programmable DMA level(DRQ1 ~ DRQ3)
- ▶ 8digital inputs and 8 digital outputs
- ▶ 3 Timer/Counter

#### Specifications:

##### Analog input

- ▶ A/D channels :16 channels (single ended),or 8 channels (differential)
- ▶ Resolution :12-bit (4096 counts)
- ▶ Input range :0 to 5V, 0 to 10V, -5V to 5V,-10V to 10V
- ▶ Gain ranges :1,10,100,500 software programmable
- ▶ Throughput :Conversion time: 25 usec(optional 10 usec version), 40KHz sa
- ▶ Accuracy :0.02%(typical)
- ▶ Overvoltage :35V(powered)
- ▶ Trigger mode :By software, pacer, or external trigger
- ▶ Data transfer :Polled, interrupt(IRQ3 to IRQ7),or DMA (DRQ 1 or DRQ.3)
- ▶ CMRR :60 dB typical

##### Digital input

- ▶ Channels :8 channels
- ▶ Level :Low at 0 to 0.8V,High at 2.4 to 5.0V
- ▶ Loading :0.4mA max. at 0.5V, 60uA max. at 2.7V

##### Timer/counter

- ▶ Time base :10MHz time base
- ▶ Pacer counter :32-bit
- ▶ Pacer rates :1.0MHz to 0.005Hz
- ▶ Counter :One 16-bit counter

#### Software:

- ▶ Furnished utilities diskette contains routines, examples, and calibration program
- ▶ Allows foreground or background operation. Provides comprehensive C, Basic,

**Mechanical:**

- ▶ Dimensions :180.0 mm X 107.2 mm
- ▶ Net weight :140 g
- ▶ Board Type :2-Layer P.C.B
- ▶ Power Supply :+5V, +/-12V
- ▶ Consumption :+5V/400 mA max. +12V/8 mA max. -12V/6 mA max

**Environmental:**

- ▶ Operating temp. :32 to 140F(0 to 60° C)
- ▶ Storage temp. :-4 to 248F(-20 to 120° C)
- ▶ Humidity :10%~90%

**Ordering information:**

- ▶ PI-216 :High speed A/D with programmable gain and Digital I/O c;
- ▶ PI-837 :Screw terminal board

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