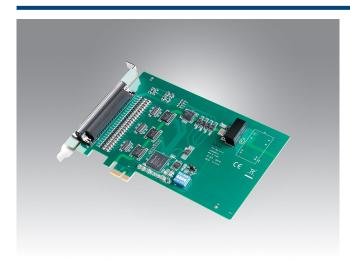
PCIE-1884

32-bit, 4-ch Encoder Counter with **Preload Position Compare FIFO PCI Express Card**



Features

- Four 32-bit programmable encoder counters
- Quadrature (X1, X2, X4), dual pulse (CW/CCW), signed pulse (OUT/DIR)
- Programmable trigger output (preload FIFO) for position comparison
- Single-ended or differential inputs
- 2,500 V_{DC} isolation protection for all signals
- Digital filter with selectable values

FCC CE ROHS

Introduction

The PCIE-1884 is a 4-ch encoder counter PCI Express card. It includes four 32-bit encoder counters with programments rigger output (preload FIFO) for position comparison which is suitable for motor control and position monitoring applications. It also provides general counter functions suit as requency measurement, pulse width measurement, pulse output, and PWM output. All channels are protected by 2,500 V_{DC} isolation circuit.

Specifications

Encoder Counters

Channels Resolution 32 bits

• Max. Input Frequency 10 MHz (40 MHz for quadrature X4)

Max. Output Frequency 10 MHz

 Digital Filter 1.28 µs ~ 1.31 ms Preload FIFO Size 1.024 values Isolation Protection 2,500 V_{DC} Input Voltage Single-ended

Logic 0: 0.8 V max.

Logic 1: 2.8 V . n. (12 V max.) Differential

Logic 0: 5 V. nax. (-12 V min.) Logic 1: 0.5 / min. (12 V max.)

 Output Voltage 0.8V max. @+24mA 2V min. @-24mA

 Encoder Counter Quadrature (X1, X2, X4), dual pulse (CW/CCW), signed

pulse (OUT/DIR), position compare output

 General Counter Frequency measurement, pulse width measurement,

pulse output, PWM output

Digital Input

Channels 4 (shared with CNTn SCLK/L pins)

Isolation Protection 2,500 V_{DC} • Opto-isolator response 100 ns Input Voltage

Logic 0: 2V max.

Logic 1:5V min. (50V max.)

D gital Output

Channels 4 (shared with CNTn_OUT pins)

Isolation Protection 2,500 V_{DC} Opto-Isolator Response 100 ns **Output Type** 5V / TTL Sink/Source Current 24mA max.

General

 Form Factor PCI Express x1

I/O Connector 37-pin D-sub female connector - Dimensions (L x W) 167 x 100 mm (6.6" x 3.9")

Operating Temperature $0 \sim 60 \,^{\circ}\text{C}$ (32 ~ 140 °F) (refer to IEC 68-2-1, 2)

Storage Temperature -40 ~ 70 °C (-40 ~ 158 °F)

Storage Humidity 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)

Board ID TM switch

 Power Consumption typical: 3.3V @ 290mA

12V @ 95mA Max.: 3.3V @ 360mA

12V @ 245mA

Ordering Information

PCIE-1884-AE 32-bit, 4-ch encoder counter with programmable

trigger output PCI express card

Accessories

PCL-10137H-1E High-speed DB37 cable, 1m PCL-10137H-3E High-speed DB37 cable, 3m ADAM-3937-BE DB37 DIN-rail wiring board