

PCI-AIO05

PCI 4 channel Acquisition(AD) board



INTRODUCTION

This product is designed for the data acquisition system which utilize PCI interface to get analog data and to generate analog waveform. The PCI-AIO05 is a board having the functions of analog I/O PCI board with the 16/24bit ADC 4 channels and 4bit DIO function.

GENERAL DESCRIPTION

- ◆ Multi-function Data acquisition board
- ◆ PCI target 32bit/33Mhz
- ◆ 16/24 bit ADC 4 channel & 4 bit DIO function
- ◆ Support to Differential, Single-ended Input
- ◆ Select ADC Input Signal Intensity(1 ~ 700)
- ◆ 4 Ch digital In/Out

APPLICATION

- ◆ PCI development and evaluation
- ◆ Data acquisition
- ◆ Laboratory instrumentation
- ◆ Process control systems
- ◆ Factory automation

SOFTWARE

- ▣ **Operating System**
 - Windows 2000/XP/7/8/10 (32/64bit)
- ▣ **Application Programming Interface**
 - Direct control through WDM driver
 - Windows DLL API

SPECIFICATION

▣ Flexible Board

- PCI Target 32bit/33Mhz
- PCI 5V/3.3V compatible
- Full 33Mhz burst read/write operation
- Average data rate is 30MB data to, 8MB data from the board without DMA.
- Very flexible to upgrade because of FPGA is used as PCI bridge and overall board control.

▣ Analog input

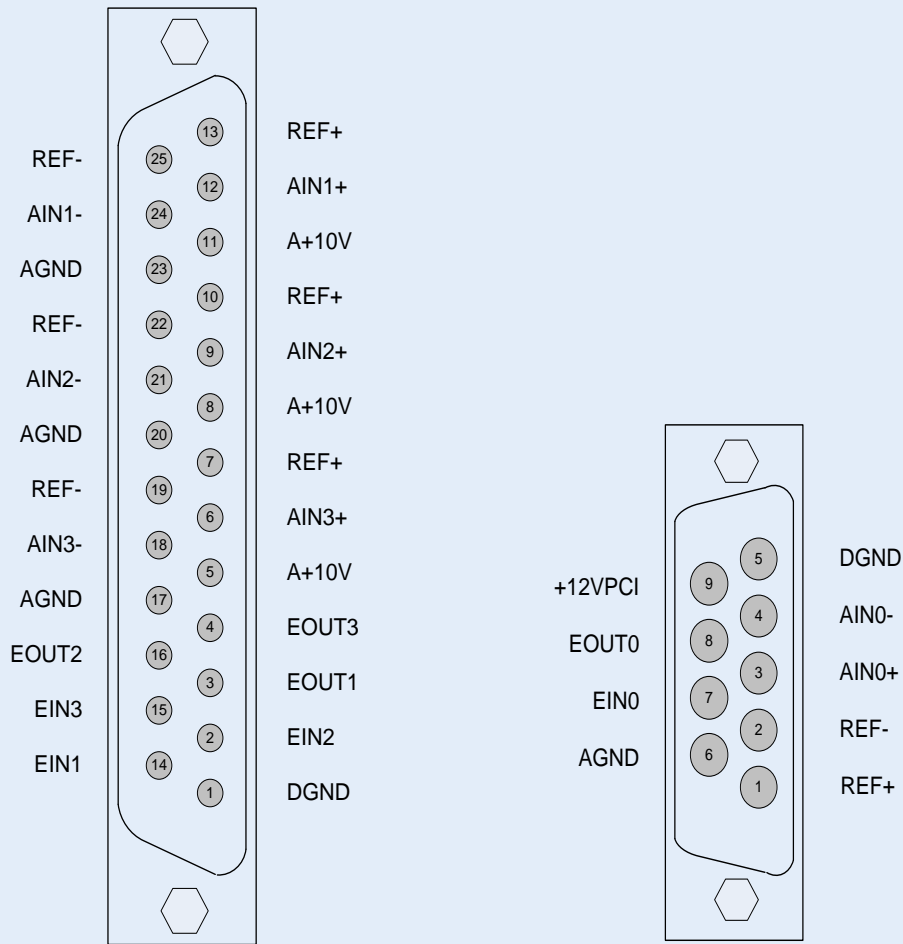
- 16/24bit resolution
- 4 Single ended or 2 Differential Input
- 0 to +5V, 0 to 10V, ± 5 , ± 10 ,V Software-Programmable input range

▣ Isolated Digital Input/Output

- Number of Channels : 4

▣ External connection

- 25pin D-sub((Analog Input Channel)
- 9pin D-sub(Analog Output Channel)



PHYSICAL/ENVIRONMENTAL

■ **Dimensions**

- Dimension (not including connectors) : 175mm x 95mm

■ **Temperature**

- 0 to 70°C, Operating
- -20 to 80°C Storage

■ **Relative Humidity**

- 20 to 80 percent, Non-condensing

■ **Power Requirement**

- +5VDC(±5%) at Max. 1A

BLOCK DIAGRAM

