PCI-DIO6400

64 Channel Digital I/O board

INTRODUCTION

This product have performance to be suitable for industry application with high integration digital card. And It supports PCI interface.

GENERAL DESCRIPTION

- ◆ PCI Specification V2.2 32bit 33MHz 5V/3.3V Compatible
- ◆ Non polarity digital input output range.
- ◆ High isolation voltage(5000Vrms)
- ◆ Sink current up to 500mA on each Isolated Output
- ◆ All Inputs are possible interrupt sources
- ◆ Isolated input voltage up to 24V
- ◆ Compact, half-size PCB

APPLICATION

- ◆ Digital Data acquisition
- ◆ Laboratory instrumentation
- ◆ Process control systems

SOFTWARE

▣ **Operating System**

- ▪ Windows 2000/XP/7/8/10 (32/64bit)

▣ **Application Programming Interface**

- ▪ Direct control through WDM driver
- ▪ Windows DLL API

SPECIFICATION

▣ **Isolated Digital Input**

- ▪ Number of Channels : 32
- ▪ Number of Common Input : 4
- ▪ Maximum Input Range(Non-polarity) : 24V
- ▪ Digital Logic Levels :
  Input High level 5 ~24V
  Input Low voltage 0 ~ 1.5V
- ▪ Input Resistance : 2.4Kohm@0.5W
- ▪ Isolation Voltage : 5000Vrms
- ▪ Isolated input voltage up to 24V
- ▪ Interrupt Sources : All Digital Inputs
- ▪ Data Transfer : Programmed I/O

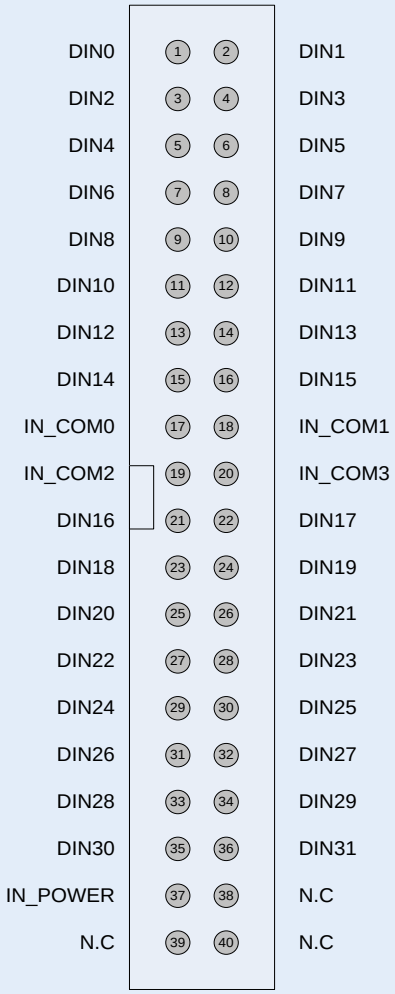
▣ **Isolated Digital Output**

- ▪ Number of Channels : 32
- ▪ Output type : Open collector Darlington transistor
- ▪ Sink Current :
  500mA for one channel @ 100% duty
  500mA for all channel @ 20% duty
- ▪ Power dissipation : Max 2.36W per chip (8DO channels)
- ▪ Supply Voltage : 5V PCI or Isolated 5V(inside equipped)
- ▪ Isolation Voltage : 5000Vrms
- ▪ Data Transfer : Programmed I/O

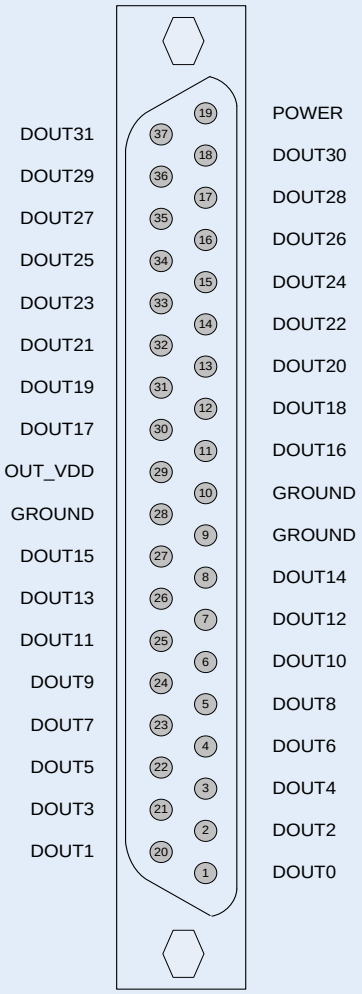
PHYSICAL/ENVIRONMENTAL

▣ Dimension

- Input Connector : Box-shaped Ribbon cable(Hirose HIF3F-40PA-2.54DS)
- Output Connector : Dsub-37pin female Type
- Dimension (not including connectors) : 160mm x 100 mm



40pin Ribbon Cable



Dsub-37pin female

▣ Temperature

- 0 to 70℃, Operating
- -20 to 80℃ Storage

▣ Relative Humidity

- 20 to 80 percent, Non-condensing

▣ Power Requirement

- +5V DC(±5%) at Max. 1A

BLOCK DIAGRAM