PCI Isolation DI/O Board

PISO-730/730A

32-channel isolated DI/O & 32-channel TTL DI/O board

PISO-730

PISO-730A

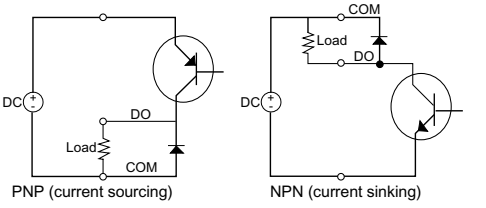
Features

- 16-channel isolated digital input and 16-channel isolated open-collector output
- 16-channel TTL input and 16-channel TTL output
- Built-in DC/DC converter built-in
- 2500VDC isolated voltage (PISO-730)
- 3750VDC isolated voltage (PISO-730A)
- Sink current output (PISO-730)
- Source current output (PISO-730A)

General Specifications

- I/O connector: one 37-pin D-sub female
  two 20-pin ribbon male
- Power requirements: +5V @ 640 mA
- Operating temperature: 0 ~ 60°C
- Operating humidity: 0 ~ 90% non-condensing
- Storage temperature: -20 ~ 70°C
- Dimensions: 180 mm x 105 mm

Sinking and Souring circuit



Functional Description

The PISO-730/730A provides 32-channel isolated digital I/O and 32-channel TTL-level digital I/O. Each of the 16 isolated digital output channel equipped a Darlington transistor (PISO-730) or PNP transistor (PISO-730A). The board can interface to field digital logic signals to eliminate ground-loop problems and isolate the host PC from damaging voltages.

Applications

- Factory Automation
- Product Test
- Laboratory Automation

Specifications

16 Optical-Isolated Inputs

- Type: isolated current input
- Input voltage: 5V to 24VDC
- Input impedance: 1.2KΩ, 0.5W
- Response time: 4KHz max

16 TTL-level Inputs

- Input high voltage: 2.0V min
- Input low voltage: 0.8V max
- Response time: 30KHz typical

16 Isolated Digital Outputs

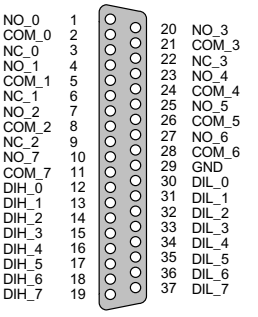
- Output voltage:
  open-collector 5~30VDC (PISO-730)
  open-collector 10~30VDC (PISO-730A)
- Sink current: 100 mA/channel, 200 mA max
- Source current: 100 mA/channel
- Response time: 30KHz max

16 TTL-level Outputs

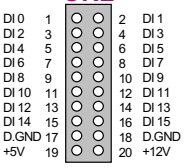
- High: Source 0.4 mA at 2.4V min
- Low: Sink 8 mA at 0.5V max

Pin Assignment

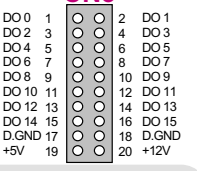
CN1



CN2



CN3



Ordering Information

Standard

PISO-730:	32-channel isolated digital I/O & 32-channel TTL digital I/O board. (current sinking)
PISO-730A:	32-channel isolated digital I/O & 32-channel TTL digital I/O board. (current sourcing)

Optional

DN-37:	Two 37-pin connector DIN-rail mounting terminal board
DB-37:	37-pin D-sub directly connector terminal board
DN-20:	Two 20-pin header DIN-rail terminal board
DB-16P:	16-channel isolated D/I board
DB-16R:	16-channel relay board
ADP-20/PCI:	20-pin extender