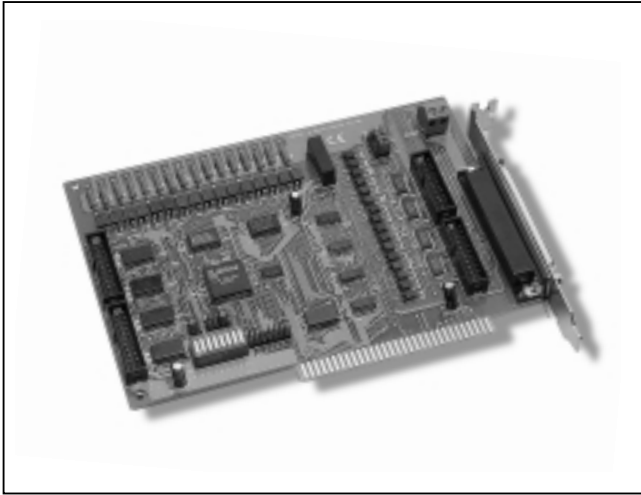




## ISO-730

### 32 Channel Isolated Digital I/O Board



#### Functional Description

The ISO-730 has 32 Isolated digital I/O channels (16 DI and 16 DO) and 32 TTL digital I/O channels. Each of the 16 isolated digital input channel accept voltage from 5V to 24V and has a resistance of 1.2K $\Omega$ . Every eight input channels use one external common ground. For example, channel 0-7 use EI-COM1 and channel 8-15 use EI-COM2. Each of the 16 isolated digital output channels equipped a darlington transistor. Every eight output channels use the common emitters. The power supply of the output port should use the external power. The channels 0-7 use EO-COM1 and channels 8-15 use EO-COM2. This interface board is easily installed in any PC/AT/XT. The board interface to field logic signals, eliminating ground-loop problems and isolating the host computer from damaging voltages.

The ISO-730 has one 37-pin D-Sub Connector and four on-board 20-pin flat-cable connectors. It is fully compatible to PCL-730.

#### Features

- 32 isolated DIO channels
- 32 TTL-level DIO channels ( Non-isolated)
- DC/DC converter build-in
- Two separate 20-pin connectors for isolated input and output channels.
- Two separate 20-pin connectors for non-isolated input and output channels.
- 2500Vdc isolation voltage
- Interrupt level: 2,3,4,5,6,7

#### Applications

- Factory Automation
- Product Test
- Laboratory Automation

#### Specifications

##### Digital Input

###### 16 Optical-isolated inputs

- Type : Isolated current input
- Isolation Voltage : 2500Vdc
- Input voltage : 5V to 24Vdc
- Input impedance : 1.2K $\Omega$ , 0.5W
- Response time: 10KHz Max.

###### 16 TTL-level inputs

- Input voltage: High : 2.0V min.  
Low: 0.8V max.
- Input load: High: 0.05mA max. @2.7V  
Low: 0.4mA max. @0.5V
- Response time :30KHz typical

##### Digital Output

###### 16 optical-isolated outputs

- Output voltage: open collector 5 to 40Vdc
- Isolation voltage : 2,500Vdc
- Sink current: 200mA max.
- Response time : 10KHz max.

###### 16 TTL-level Outputs

- Output voltage:  
High : Source 0.4mA at 2.4V min.  
Low: Sink 8 mA at 0.5V max.
- Interrupt Source:  
Channel 0 and 1 of Isolated DI port or channel 0 and 1 of TTL DI port

##### General Environmental

- Operating temp: 0-50°C
- Storage temp: -20°C to 70°C
- Humidity: 0 to 90% non-condensing
- Dimensions: 172 mm x 124 mm

#### Software

- ISO Development Toolkit for DOS
- ISO Development Toolkit for Win95
- ISO Development Toolkit for WinNT

#### Order Description

- ISO-730 : 32-channel isolated Digital I/O board

#### Options

- DB-37 Directly connect signals to the back of ISO-730
- DN-37 I/O Connector Block with DIN Rail Mounting and 37-PIN D-SUB Connector
- ADP-20: 20-pin Extender
- ISO LabVIEW Development Toolkit for Win95
- ISO LabVIEW Development Toolkit for WinNT