ISO-P32C32
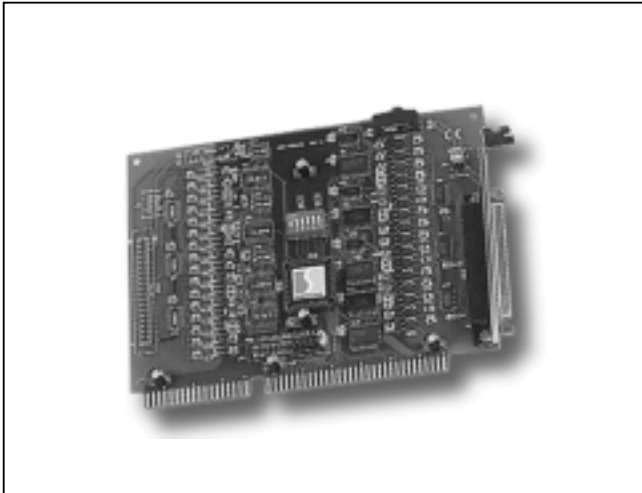## 32-Channel Optically Isolated Digital Intput and
32-Channel Optically Isolated Open-Collector Output

Functional Description

The ISO-P32C32 has 32 channels of optically isolated digital inputs and 32 channels of optically isolated digital outputs, arranged into four isolated banks. Each input channel use a photo-coupler input which allows either internal isolated power supply or external power selected by jumper. Each digital output offers a darlington transistor and integral suppression diode for inductive load. Isolated input channels 0-15 are designed into group A and channels 16-31 are designed into group B. Isolated output channels are designed into group C and Group D. The power supply of the input port may use the external power or the power from the PC side using DC/DC converter. The power supply of the output port should use the external power. 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-P32C32 has one 37-pin D-Sub connector and one 40-pin male header. The 40-pin to DB-37 flat-cable is used to fixed with the case. The user can connect the digital signal through the second D-Sub connector . Each D-Sub connector contains 16 input channels and 16 output channels.

Features

- 32-channel optically isolated digital input
- 32-channel optically isolated digital output /open -collector
- DC/DC converter build-in
- Four isolated bank.
- 3000V DC isolation voltage
- Interrupt level: 3,4,5,6,7,9,10,11,12,14,15
- Interrup source : channel 0 and channel 15

Applications

- Factory Automation
- Product Test
- Laboratory Automation

Specification

Isolated Input

Type : Isolated current input
- Isolation Voltage : 3750V(Using External Power); 3000V (Using internal Power)
- Input voltage : 3.5V to 30V
- Input impedance : 3K (DC 24V, 7.67mA) for each channel)
- Response time: 10Khz Max

Isolation Output

- Type : Isolated open-collector : 100mA per channel
- External voltage : 30V (Max.)
- Response time: 10Khz Max
- Power requirements : +5V, 600mA (typical)
- General Environmental
  Operating temp: 0-50°C
  Storage temp: -20°C to 70°C
  Humidity: 0 to 90% non-condensing
  Dimensions: 163 mm x 115 mm

Software

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

Order Description

- ISO-P32C32 : 32-channel isolated Digital Input and 32 -channel isolated Open-Collector Output Board

OPTIONS

- DB-37: Directly connect signals to the back of ISO-P32C32
- DN-37: I/O Connector Block with DIN-Rail Mounting and 37-PIN D-SUB Connector
- ISO LabVIEW Development Toolkit for Win95
- ISO LabVIEW Development Toolkit for WinNT

Pin Assignment

Pin	Signal		Pin	Signal
1	GND_DO(-)		20	GND_DO(-)
2	DI_0		21	DO_0
3	DI_1		22	DO_1
4	DI_2		23	DO_2
5	DI_3		24	DO_3
6	DI_4		25	DO_4
7	DI_5		26	DO_5
8	DI_6		27	DO_6
9	DI_7		28	DO_7
10	DI_8		29	DO_8
11	DI_9		30	DO_9
12	DI_10		31	DO_10
13	DI_11		32	DO_11
14	DI_12		33	DO_12
15	DI_13		34	DO_13
16	DI_14		35	DO_14
17	DI_15		36	DO_15
18	Power_A(+)		37	Power_DO(+)
19	GND_DO(-)			