ISO-730

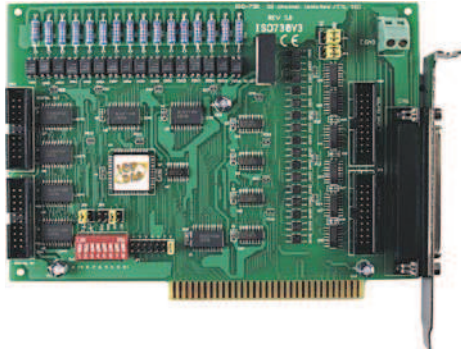## 32-channel isolated DI/O & 32-channel TTL DI/O board

Features

- 16 isolated digital inputs,16 isolated open-collector output
- 16 TTL input and 16 TTL output
- Sink current up to 200 mA on each isolated output
- Built-in DC/DC converter
- 2500VDC isolation voltage
- Two interrupt source:
  - Channel 0 and 1 of isolated DI port
  - Channel 0 and 1 of TTL DI port

Functional Description

The ISO-730 has 32 isolated digital I/O channels and 32 TTL digital I/O channels. Each of the 16 isolated digital input channel accepts voltage from 5V to 24V and has a resistance of 1.2KΩ. Each of the 16 isolated digital output channels equipped a Darlington transistor. The board can interface to field logic signals to eliminate ground-loop problems and isolate the host computer from damaging voltages. It is compatible to PCL-730.

Applications

- Factory Automation
- Product Test
- Laboratory Automation

Specifications

16 Optical-Isolated Inputs
- Type: Isolated current input
- Isolation voltage: 2500VDC
- Input voltage: 5V to 30VDC
- Input impedance: 1.2KΩ, 0.5W
- Response time: 10KHz max

16 TTL-level Inputs
- Input high voltage: 2.0V min
- Input low voltage: 0.8V max
- Input load: High: 0.05 mA max @ 2.7V
             Low: 0.4 mA max @ 0.5V
- Response time :30KHz typical

16 Optical-Isolated Outputs
- Output voltage: open collector 30V max
- Isolation voltage: 2,500VDC
- Sink current: 100 mA/channel
- Response time: 10KHz max

16 TTL-level Outputs
- High: Source 0.4 mA at 2.4V min
- Low: Sink 8 mA at 0.5V max

General Environmental

- I/O connector: one 37-pin D-Sub female
                four 20-pin ribbon male
- Power requirements: +5V @ 764 mA
- Operating temperature: 0 ~ 60°C
- Operating humidity: 0 ~ 90% non-condensing
- Storage temperature: -20 ~ 70°C
- Dimensions: 172 mm x 124 mm

Pin Assignment

CN3

DO 0	1	2	DO 1
DO 2	3	4	DO 3
DO 4	5	6	DO 5
DO 6	7	8	DO 7
DO 8	9	10	DO 9
DO10	11	12	DO 11
DO12	13	14	DO 13
DO14	15	16	DO15
D.GND	17	18	D.GND
+5V	19	20	+12V

CN4

DI 0	1	2	DI 1
DI 2	3	4	DI 3
DI 4	5	6	DI 5
DI 6	7	8	DI 7
DI 8	9	10	DI 9
DI 10	11	12	DI 11
DI 12	13	14	DI 13
DI 14	15	16	DI 15
D.GND	17	18	D.GND
+5V	19	20	+12V

CN6

IDI_0	1	20	IDI_1
IDI_2	2	21	IDI_3
IDI_4	3	22	IDI_5
IDI_6	4	23	IDI_7
IDI_8	5	24	IDI_9
IDI_10	6	25	IDI_11
IDI_12	7	26	IDI_13
IDI_14	8	27	IDI_15
E1.COM1	9	28	E1.COM2
E0.COM1	10	29	EO.GND
IDO_0	11	30	IDO_1
IDO_2	12	31	IDO_3
IDO_4	13	32	IDO_5
IDO_6	14	33	IDO_7
IDO_8	15	34	IDO_9
IDO_10	16	35	IDO_11
IDO_12	17	36	IDO_13
IDO_14	18	37	IDO_15
E0.COM2	19		

Ordering Information

Standard

ISO-730: 32-channel isolated digital I/O & 32-channel TTL digital I/O board

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: 20-pin extender