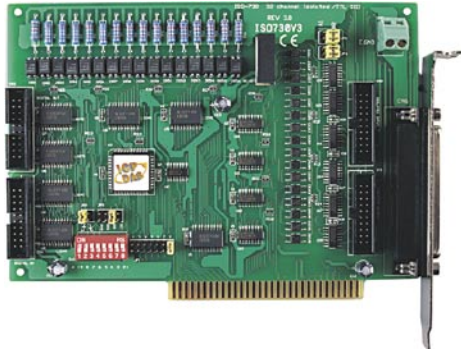


ISO-730

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



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

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

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				CN4				CN6							
DO0	1	○	2	DI0	1	○	2	IDL_0	1	○	20	IDL_1	21	○	30
DO2	3	○	4	DI2	3	○	4	IDL_2	2	○	21	IDL_3	22	○	31
DO4	5	○	6	DI4	5	○	6	IDL_4	3	○	22	IDL_5	23	○	32
DO6	7	○	8	DI6	7	○	8	IDL_6	4	○	23	IDL_7	24	○	33
DO8	9	○	10	DI8	9	○	10	IDL_8	5	○	24	IDL_9	25	○	34
DO10	11	○	12	DI10	11	○	12	IDL_10	6	○	25	IDL_11	26	○	35
DO12	13	○	14	DI12	13	○	14	IDL_12	7	○	26	IDL_13	27	○	36
DO14	15	○	16	DI14	15	○	16	IDL_14	8	○	27	IDL_15	28	○	37
D.GND	17	○	18	D.GND	17	○	18	E1.COM1	9	○	28	E1.COM2	29	○	
+5V	19	○	20	+12V	19	○	20	E0.COM1	10	○	29	EO.GND	30	○	
								IDO_0	11	○	30	IDO_1	31	○	
								IDO_2	12	○	31	IDO_3	32	○	
								IDO_4	13	○	32	IDO_5	33	○	
								IDO_6	14	○	33	IDO_7	34	○	
								IDO_8	15	○	34	IDO_9	35	○	
								IDO_10	16	○	35	IDO_11	36	○	
								IDO_12	17	○	36	IDO_13	37	○	
								IDO_14	18	○					
								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