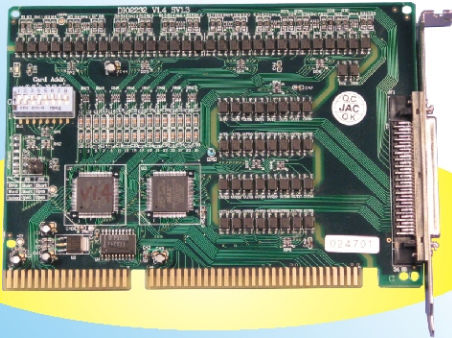




Bridging the Gap between Real World and Computer

DIO-2232



64-Channel Digital I/O Card (32 DI and 32 DO Photo-Coupler Isolated)

Features

- ▶ 32 isolated DI and 32 isolated DO channels
- ▶ High voltage isolation on all isolated channel (2500 Vac)
- ▶ DIN rail wiring board with different output options
- ▶ No output transition during start-up
- ▶ Output status readback

Introduction

The DIO-2232 card offers 32 isolated digital input channels and 32 isolated digital output channels for the ISA bus. All the I/O's provide good noise immunity. It can be used in industrial automation and lab automation applications.

Bit manipulation and output status readback function make this card very easy to program.

DLL is provided for WIN NT/98/2000/XP platform and sample programs come with C / VB source code .

Pin Assignments

IN0	1 35	IN1
IN2	2 36	IN3
IN4	3 37	IN5
IN6	4 38	IN7
IN8	5 39	IN9
IN10	6 40	IN11
IN12	7 41	IN13
IN14	8 42	IN15
IN16	9 43	IN17
IN18	10 44	IN19
IN20	11 45	IN21
IN22	12 46	IN23
IN24	13 47	IN25
IN26	14 48	IN27
IN28	15 49	IN29
IN30	16 50	IN31
OUT0	17 51	OUT1
OUT2	18 52	OUT3
OUT4	19 53	OUT5
OUT6	20 54	OUT7
OUT8	21 55	OUT9
OUT10	22 56	OUT11
OUT12	23 57	OUT13
OUT14	24 58	OUT15
OUT16	25 59	OUT17
OUT18	26 60	OUT19
OUT20	27 61	OUT21
OUT22	28 62	OUT23
OUT24	29 63	OUT25
OUT26	30 64	OUT27
OUT28	31 65	OUT29
OUT30	32 66	OUT31
+24Vin	33 67	24Vin
+24Vin	34 68	+24Vin

Specifications (With Matched Wiring Board)

Digital Input

- ▶ Input : 32 photo-isolated
- ▶ ON State : 2.8Vdc(max) 4.5mA(min)
- ▶ OFF State : 8Vdc(min) 3mA(max)
- ▶ Switching Speed : 2.2KHz max. (with on board debounce circuit)

Digital Output

- ▶ Output : 32 photo-isolated
- ▶ Output Range : Open drain 0 ~ 100 Vdc
- ▶ Output Rating : 1A @ 120Vdc (N-MOS)
1A @ 24Vdc (P-MOS)
3A @250Vac, 30Vdc (Relay)
- ▶ Switching Speed : 20KHz(max)(MOS out only)

General

- ▶ Insulation Resistance : 100M Ohm (min) at 1000Vdc
- ▶ Isolation Voltage : 2500Vac 1Min
- ▶ Connector : One 68-pin SCSI-II female connector
- ▶ Operation Temperature : 0 to +70 degree C
- ▶ Storage Temperature : -20 to +80 degree C
- ▶ Operation Humidity : 5~95% RH, non-condensing
- ▶ Dimensions : 157(W)*110(H) mm, 6.18(W)*4.33(H)in

Applications

- ▶ Industrial ON/OFF control
- ▶ Contact closure monitoring
- ▶ Switch status sensing
- ▶ Digital I/O control
- ▶ Industrial and lab automation

Ordering Information

- ▶ **DIO-2232** : 64-channel Digital I/O Card for 32 DI and 32 DO Photo-coupler isolated
- ▶ **DIO-3232DIN(N)** : DIN rail mounted wiring board for 32 input and 32 power N-MOS output
- ▶ **DIO-3232DIN(P)** : DIN rail mounted wiring board for 32 input and 32 power P-MOS output
- ▶ **DIO-3232DIN(R)** : DIN rail mounted wiring board for 32 input and 32 power Relay output
- ▶ **M266868150** : 68-pin SCSI-II cable 1.5 M
- ▶ **M266868300** : 68-pin SCSI-II cable 3.0 M

Software Support

▶ PC OS Support

Windows 98/2000/XP & Linux O.S.
Embedded XP, Win CE (at request)

▶ Library

DLLs , VI library

▶ Develop Software

Visual C++ , Visual Basic ,
Borland C/C++ Builder , LabVIEW etc

▶ Example Source Code

Visual Basic