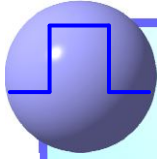




Bridging the Gap between Real World and Computer



DIO8264 PCIe-BUS **New**



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

Features

- ▶ PCIe plug and play function with card ID for 16 identical cards
- ▶ 64 isolated DI channels
- ▶ High voltage isolation on all isolated channel (2500 Vac)
- ▶ Programmable debounce at 50Hz, 100Hz, 200Hz, 1KHz and no de-bounce for input
- ▶ External triggered interrupt (on IN07~IN00 and TTL IO07~IO00)
- ▶ Input counter / frequency counter (on IN07~IN00 and TTL IO07~IO00)
- ▶ Keep output state after hot reset (jumper selectable)
- ▶ 32-bit timer with time up interrupt

Introduction

The DIO8264 card offers 64 isolated digital input channels for the PCIe bus. The card featured with Input Counter function and external trigger interrupt function on isolated input port0 or TTL input port0.

DII is provided for WinXP, Win7 and later or LINUX platform and sample programs come with VB source code.

Specifications (With Matched Wiring Board)

Input Section

- ▶ Input channel : 64 isolated digital input
- ▶ ON state : 8Vdc(max), 4mA(min)
- ▶ OFF state : 12Vdc(min), 3mA(max)
- ▶ Software debounce : No debounce, 50Hz, 100Hz, 200Hz, 1KHz
- ▶ Switching speed : 10KHz max. (limit by photo coupler speed and debounce filter)
- ▶ Interrupt : IN07 ~ IN00, TTL IO07~IO00
- ▶ Counter/frequency counter : IN07~IN00, TTL IO07~IO00

TTL IO

- ▶ Port : 2
- ▶ Direction : software programmable on port base
- ▶ Software debounce : No debounce, up to 8MHz

Timer

- ▶ Length : 32 bit @1us
- ▶ Interrupt : time up interrupt

Main Card General

- ▶ Card ID : 4-bit
- ▶ Insulation resistance : 100M Ohm (min) at 1000Vdc
- ▶ Isolation Voltage : 2500Vac 1Min
- ▶ Connector : Centronic type SCSI II 68pin connector
- ▶ Operation Temperature : 0 °C ~ +70 °C
- ▶ Storage Temperature : -20 °C ~ +80 °C
- ▶ Operation Humidity : 5~95% RH, non-condensing
- ▶ Dimensions : 165(W)*110(H)mm, 6.5(W)*4.4(H)in

Applications

- ▶ Accept :
 - P.B./M.S./EMG./Contact - Start/Stop/Limit switch/sensor
 - Interlock/selective Sw.- Proximity switch
- ▶ Industrial ON/OFF monitor
- ▶ Low speed counter
- ▶ Frequency counter
- ▶ Hardware event capture



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Software Support

► PC OS Support

WinXP, Win7 and later or 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

Ordering Information

- **DIO8264** : 64-channel Digital I/O Card for 64 Photo-coupler isolated DI
- **ADP8264DIN** : DIN rail mounted wiring board for 64 input P.97
- **M26J68681M5FB** : 68-pin SCSI-II Centronic cable 1.5 M for JF0 I.18
- **M26J68683M0FB** : 68-pin SCSI-II Centronic cable 3.0 M for JF0 I.18
- **JS51050** : DIN rail mounted dummy wiring board (D type 25P male to terminals) for JM0 TTL I/O I.12
- **M270325X4** : D type 25P male-female cable 1.5M for JM0 I.17
- **M270325X4S** : D type 25P male-female cable 1.5M, shielding for JM0 I.17
- **M270325X0** : D type 25P male-female cable 3.0M (DIO3264B only) for JM0 I.17
- **M270325X0S** : D type 25P male-female cable 3.0M, shielding for JM0 I.17
- **SM23404** : Extension kit for JM0 (bracket and flat cable for 25p female D type connector)

Pin Assignments

JM0		JF0		
IO00	1	68	34	+24Vin
IO01	2	67	33	IN77
IO02	3	66	32	IN75
IO03	4	65	31	IN73
IO04	5	64	30	IN71
IO05	6	63	29	IN67
IO06	7	62	28	IN65
IO07	8	61	27	IN63
GND	9	60	26	IN61
GND	10	59	25	IN57
GND	11	58	24	IN55
+5Vout_PC	12	57	23	IN53
+5Vout_PC	13	56	22	IN51
		55	21	IN47
		54	20	IN45
		53	19	IN43
		52	18	IN41
		51	17	IN37
		50	16	IN35
		49	15	IN33
		48	14	IN31
		47	13	IN27
		46	12	IN25
		45	11	IN23
		44	10	IN21
		43	9	IN17
		42	8	IN15
		41	7	IN13
		40	6	IN11
		39	5	IN07
		38	4	IN05
		37	3	IN03
		36	2	IN01
		35	1	+24Vin
				IN76
				IN74
				IN72
				IN70
				IN66
				IN64
				IN62
				IN60
				IN56
				IN54
				IN52
				IN50
				IN46
				IN44
				IN42
				IN40
				IN36
				IN34
				IN32
				IN30
				IN26
				IN24
				IN22
				IN20
				IN16
				IN14
				IN12
				IN10
				IN06
				IN04
				IN02
				IN00

Note