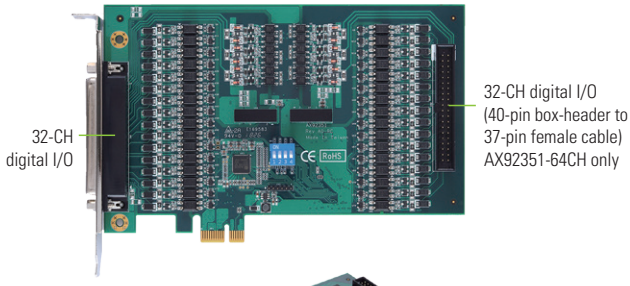
AX92351

32-CH/64-CH Isolated Digital I/O PCI Express Card with Digital Filter

Features

- 16-CH or 32-CH isolated digital input (compatibility: sink and source)
- 16-CH or 32-CH isolated digital output (with output status read back)
- Interrupt capability (smart interrupt)
- Digital filter function
- Supports board ID



▲ Side view

Introduction

The AX92351 is a 32-CH isolated DI and 32-CH isolated DO card. It comes with DI channels that support both sink and source input types for maximum application flexibility. The AX92351 also integrates digital filter and I/O interrupt (smart interrupt) functions, making it specifically suitable for factory automation, industrial on/off control and switch status sensing.

Specifications

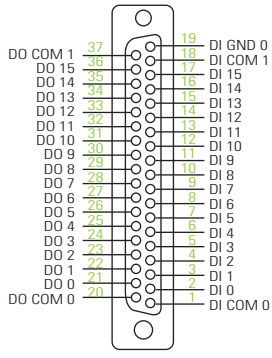
Isolated Digital Input	
Isolation Voltage	2kV
Channels	16 (AX92351-32CH) 32 (AX92351-64CH)
Compatibility	Sink or source, dry or wet contact
Input Voltage	Input high voltage: 10 to 30V Input low voltage: 0 to 3V
Input Impendence	7.5KΩ
Interrupt Sources	Interrupt 0 (DI: CH 0-4) and 1 (DI: CH 8-12)
Response Speed	4KHz
Digital Filter	Yes
Isolated Digital Output	
Isolation Voltage	2kV
Channels	16 (AX92351-32CH) 32 (AX92351-64CH)
Compatibility	Sink or Source, Open collector
Output Current	100 mA/+30 VDC for all channels @ 100% duty
Supply Voltage	Max. 30 VDC
Max. Voltage Drop	3.5 VDC @ 100mA
Response Speed	4KHz
Over Current Protection	Yes
General Specifications	
Bus Type	PCI Express x1
Power Requirements	625mA @ +3.3V (Max.) 66mA @ +12V (Max.)
Dimensions	168 x 107 mm
Board ID	Yes, 4-bit
I/O Connector	Female DB37 x1 40-pin box header x1 (AX92351-64CH only)
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10 to 95% RH, non-condensing
Software Support	
EOS Support	Windows® 7/10 (32/64-bit)
Software compatibility	C#, C/C++, LabVIEW

Digital Filter Table for DI Channels

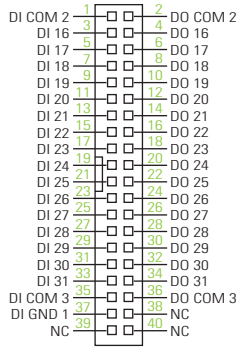
16 stages per DI channel; each channel can be set independently

Setting Data	Digital Filter Time	Setting Data	Digital Filter Time	Setting Data	Digital Filter Time	Setting Data	Digital Filter Time
0	function disable	4	700us	8	3ms	12	7ms
1	100us	5	900us	9	4ms	13	8ms
2	300us	6	1ms	10	5ms	14	9ms
3	500us	7	2ms	11	6ms	15	10ms

37-pin Female Connector (CN1)



40-pin Box-Header (CN2)
AX92351-64CH only



Ordering Information

AX92351-32CH (P/N: E392351104)	32-CH isolated digital I/O with digital filter
AX92351-64CH (P/N: E392351103)	64-CH isolated digital I/O with digital filter (includes one 40-pin box-header to 37-pin female cable)

Accessories	
5A237AP0200E	37-pin DIN-rail terminal board DM37-AP02
594DM373500E	37-pin D-Sub cable, L=1m WHDM37/1.0
594DM373510E	37-pin D-Sub cable, L=2m WHDM37/2.0
594DM373520E	37-pin D-Sub cable, L=3m WHDM37/3.0

* AX92351-64CH must be used in conjunction with two terminal boards and two D-Sub cables (all boards and cables are optional accessories available for purchase).

Packing list

Standard
I/O bracket, 40-pin to DB37 cable (AX92351-64CH only)

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* All specifications and photos are subject to change without notice.

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