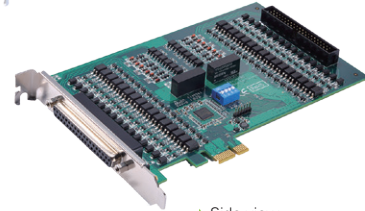
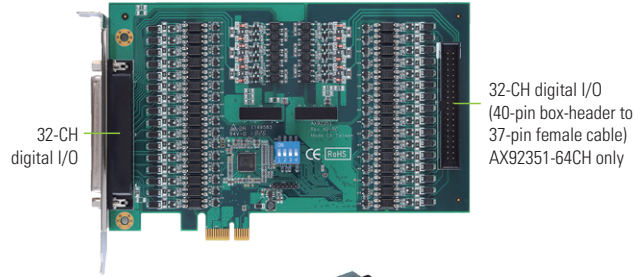


AX92351

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



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

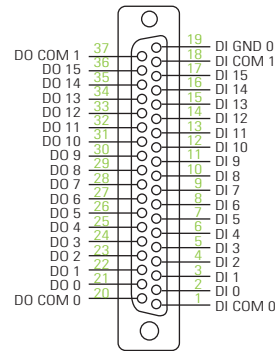
| Isolated Digital Input | |
|-------------------------|---|
| Isolation Voltage | 2kV |
| Channels | 16 (AX92351-32CH) 32 (AX92351-64CH) |
| Compatibility | Sink or source, dry or wet contact |
| Input Voltage | Input high voltage: 10 to 30V Input low voltage: 0 to 3V |
| Input Impedance | 7.5KΩ |
| 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

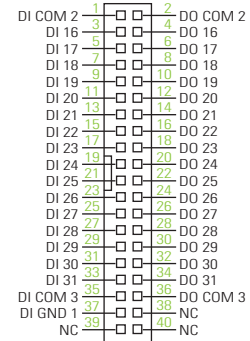
16 stages per DI channel; each channel can be set independently

| 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)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Axiomtek:](#)

[AX92351 ISOLATED 32 DI AND 32 DO CARD](#) [AX92351-32CH isolated 16 DI & 16 DO card](#) [AX92351-64CH isolated 32 DI & 32 DO card](#) [AX92351-32CH 16DI & 16DO PClex1 card](#) [AX92351-64CH 32DI & 32DO PClex1 card](#)