AX92351
32/64CH Isolated Digital I/O PCI Express Card with Digital Filter

Features
- 16/32 isolated digital input (compatibility: sink and source)
- 16/32 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 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 flexibility. 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 flexibility.

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
- 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
- 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 (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/Windows® 10 (32/64bit), Interval zero real-time OS (64bit)
- Software compatibility: C#, C/C++, Visual Basic

Digital Filter Table for DI Channels

<table>
<thead>
<tr>
<th>Setting Data</th>
<th>Digital Filter Time</th>
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<tbody>
<tr>
<td>0 function disable</td>
<td>4</td>
<td>700us</td>
<td>8</td>
<td>3ms</td>
<td>12</td>
<td>7ms</td>
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<tr>
<td>1</td>
<td>100us</td>
<td>5</td>
<td>900us</td>
<td>9</td>
<td>4ms</td>
<td>13</td>
<td>8ms</td>
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<tr>
<td>2</td>
<td>300us</td>
<td>6</td>
<td>1ms</td>
<td>10</td>
<td>5ms</td>
<td>14</td>
<td>9ms</td>
</tr>
<tr>
<td>3</td>
<td>500us</td>
<td>7</td>
<td>2ms</td>
<td>11</td>
<td>6ms</td>
<td>15</td>
<td>10ms</td>
</tr>
</tbody>
</table>

37-pin Female Connector (CN1)
40-pin Box-Header (CN2)

Ordering Information
AX92351-32CH (P/N: E392351100) 32-CH digital I/O with digital filter
AX92351-64CH (P/N: E392351102) 64-CH isolated digital I/O with digital filter (includes one 40-pin box-header to 37-pin female cable)

Accessories
- 5A237AP200E 37-pin DIN-rail terminal board DM37-AP2
- 5A0DM375500E 37-pin D-Sub cable, L=1m WHDM37/1.0
- 5A0DM375510E 37-pin D-Sub cable, L=2m WHDM37/2.0
- 5A0DM375520E 37-pin D-Sub cable, L=3m WHDM37/3.0

Packing list
User’s manual/utility CD and I/O bracket, 40-pin to DB37 cable (AX92351-64CH only)