

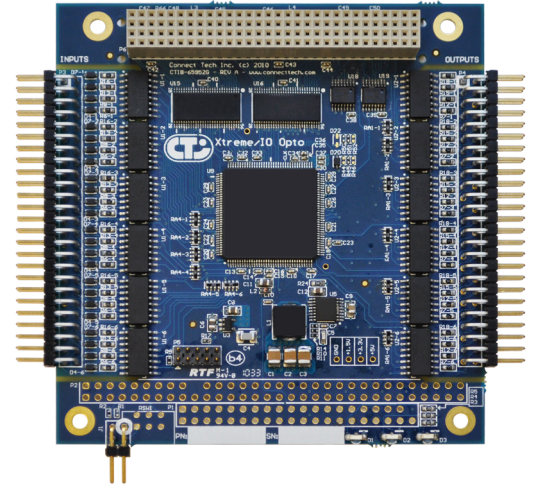
## Xtreme I/O Opto

Connect Tech's Xtreme I/O Opto is a 48-bit isolated digital input/output board grouped with 24 optically isolated inputs and 24 optically isolated outputs. The flexibility of the FPGA technology applied to the Xtreme I/O Opto allows integration and customization to meet application requirements.

Fully PCI-104 compliant, Xtreme I/O Opto can be controlled directly from a memory mapped register set in any operating system.

The reliability of the Xtreme I/O Opto, along with the added protection provided by 3kV isolation ensures optimal performance and protection under extreme environmental conditions. Xtreme I/O Opto is ideal for embedded technology applications in the military, aerospace, medical and industrial sectors.

**Product Name:** Xtreme I/O Opto  
**Part Number:** DAG001, DAG002



### Specifications

<b>Inputs</b>	<ul style="list-style-type: none"> <li>• 24 optically isolated inputs (24-bits)</li> <li>• Wide input voltage range from +0 up to +40V DC</li> <li>• Independent grounds and reverse voltage protection</li> <li>• Selectable interrupt generation on any input signal (change of state, rising or falling edge)</li> <li>• 1.8kOhm current limiting series resistor on each input</li> </ul>
<b>Outputs</b>	<ul style="list-style-type: none"> <li>• 24 optically isolated outputs (24-bits)</li> <li>• Wide output voltage range from +0 up to +40V DC</li> <li>• Open collector configuration with common emitters</li> <li>• Individual selectable output voltage levels with a 4.7kOhm pull up</li> <li>• Maximum output current: 8mA</li> </ul>
<b>Connectors</b>	2x25 (50 position) 0.1" (DIL) pin headers available in vertical or right angle
<b>Optical Isolation</b>	3kV RMS
<b>Control/Addressing</b>	<ul style="list-style-type: none"> <li>• FPGA Register Controlled Device (No jumpers needed)</li> <li>• Custom logic available upon request</li> </ul>
<b>Operating Temperature</b>	-40°C to +85°C (-40°F to +185°F)
<b>Dimensions</b>	Fully PCI-104 compliant: 3.775" x 3.550"
<b>Bus</b>	PCI-104 (PC/104-Plus), ISA (PC/104) connector can be optionally installed as a pass-through connector
<b>Software Compatibility</b>	<ul style="list-style-type: none"> <li>• Custom CTI Device Drivers for QNX, Linux, Windows</li> <li>• Device can also be controlled directly from a memory mapped register set in any operating system</li> </ul>

### FEATURES

- ✓ *PCI-104 & PC/104-Plus Compliant*
- ✓ *48 Isolated Digital I/O Channels*
- ✓ *3kV isolation on all channels*
- ✓ *FPGA Register Controlled Device (jumpers are not required)*
- ✓ *Interrupt Generation Capability*
- ✓ *+0 to +40V DC Voltage Range*

**RoHS**

Specifications subject to change without notice.  
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