Connect Tech Inc.
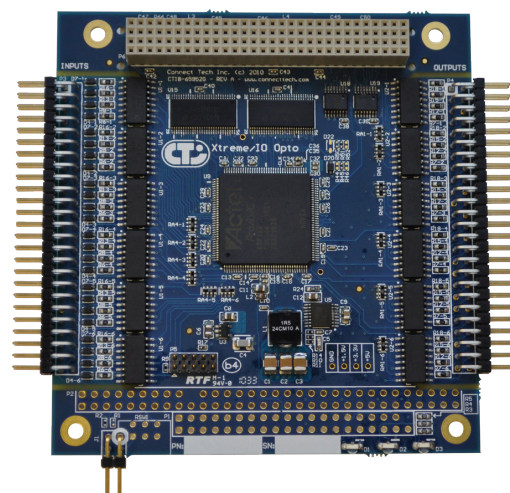*Industrial Strength Communications*

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

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*

Specifications	
Inputs	• 24 optically isolated inputs (24-bits) • Wide input voltage range from +0 up to +40V DC • Independent grounds and reverse voltage protection • Selectable interrupt generation on any input signal (change of state, rising or falling edge) • 1.8kOhm current limiting series resistor on each input
Outputs	• 24 optically isolated outputs (24-bits) • Wide output voltage range from +0 up to +40V DC • Open collector configuration with common emitters • Individual selectable output voltage levels with a 4.7kOhm pull up • Maximum output current: 8mA
Connectors	2x25 (50 position) 0.1" (DIL) pin headers available in vertical or right angle
Bus	PCI-104 (PC/104-*Plus*)
Optical Isolation	3kV RMS
Control/Addressing	• FPGA Register Controlled Device (No jumpers needed) • Custom logic available upon request
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Dimensions	Fully PCI-104 compliant: 3.775" x 3.550"
Bus	PCI-104 (PC/104-*Plus*), ISA (PC/104) connector can be optionally installed as a pass-through connector
Software Compatibility	• Custom CTI Device Drivers for QNX, Linux, Windows • Device can also be controlled directly from a memory mapped register set in any operating system
Warranty and Support	Lifetime warranty and free technical support

RoHS

Specifications subject to change without notice.

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