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.

### 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

**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

### 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**

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Specifications subject to change without notice.
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