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)
- 1.8kΩ 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 4.7kΩ 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”

**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

### 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