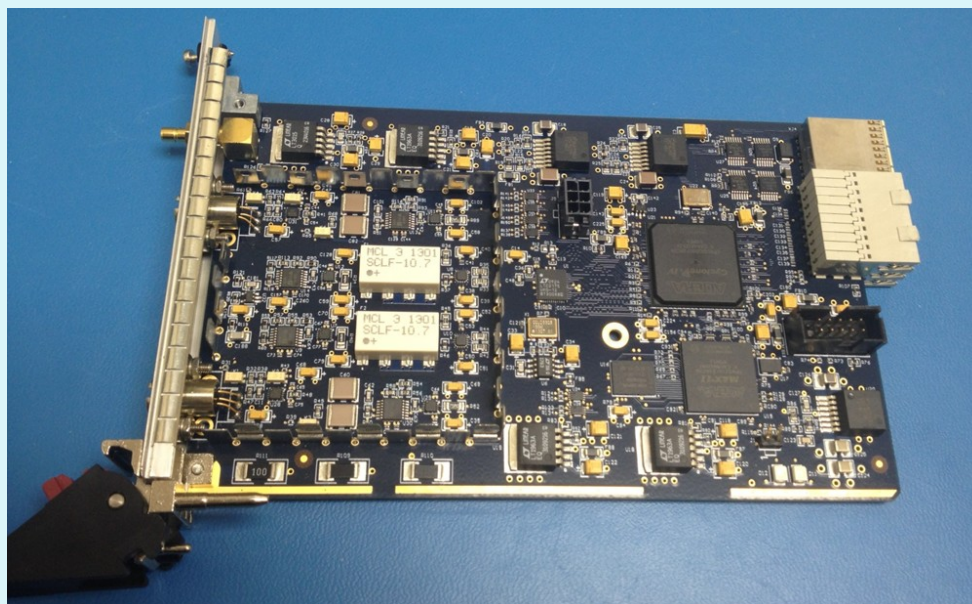


# Optical Oscilloscope PXIe Card

## Features and Specifications



The Optical Oscilloscope PXIe Card is a 2 channel optical interrogator compatible with any PXI-e chassis available from National Instruments or other vendors. It accepts 2 fiber-optic inputs via front panel FC style connectors and can be configured for visible or infrared wavelength ranges. A proprietary optical amplifier circuit allows for the first stage sensitivity to be varied dramatically with minimal impact on bandwidth and noise performance. The card has an on-board FPGA to allow for custom high speed embedded processing of data, and also permits full speed transmission of data to the controller in the chassis for logging or other analysis.



### Key Features

- Software selectable gains of 10,000 to over 6 Million with low noise
- High Bandwidth of > 5 MHz at low gain, >1Mhz at max gain, lower bandwidth available as well
- Software selectable AC or DC coupling – AC coupling cutoff frequency of 10 Hz.
- Simultaneous A/D converters with max sample rate of 125 MHz
- TTL type Trigger/Sync input for data captures via front panel SMB connector
- Altera Cyclone IV FGPA with 150k gates for custom embedded code
- Dual front panel photodiodes are configurable for visible or infrared light with FC or SC connectors
- Compatible with PXI-e chassis with up to 4 lanes of data transfer
- Optional double-width card configuration available with laser driver for a complete sensor solution.

**CONTACT:** PRIME PHOTONICS  
1116 SOUTH MAIN ST  
BLACKSBURG, VA 24060  
+1 (540) 961.2200

[WWW.PRIMEPHOTONICS.COM](http://WWW.PRIMEPHOTONICS.COM)  
[INFO@PRIMEPHOTONICS.COM](mailto:INFO@PRIMEPHOTONICS.COM)