

## PXI FIBER OPTIC MODULE BOARDS

“PXI Fiber Optic modules” are the future generation of PXI 3U form boards developed to support system designers in all test activities which require generation, switching, attenuation and power measurement of optical fiber signals.

Fiber Optic Switches provide four different PXI modules, to switch one or two optical inputs to 2, 4, 8 different possible optical outputs. Switch operations are software controlled via USB or PXI interface.

Fiber Optic Attenuator provides a PXI integrated instrument capable of realizing a software controlled power optic attenuation between the input and output optical signals. The instrument is accessible via USB or PXI interface.

The LASER Source and Optical Power Meter provide a monochromatic LASER beam source and a power meter for the optic input signal, integrated into a single PXI instrument. LASER source activation and power measurement are under software control. The instrument is accessible via USB or PXI interface.

For each module a Graphical User Interface for MS Windows and Linux are included.

### KEY FEATURES

- One or Two PXI slots occupied
- PXI and USB electrical interfaces
- Operating Wavelength range: 770+850 nm
- FC-PC Connectors
- If required other optical characteristics can be provided
- PXI Fiber Optic Switches
  - 1 to 2 channels PXI switch
  - 1 to 4 channels PXI switch
  - 1 to 8 channels PXI switch
  - 2 to 2 channels PXI switch
  - Guaranteed lifetime [switching operations] > 10<sup>8</sup>
- PXI Fiber Optic Attenuator
  - Attenuation range 2.0 dB to 40 dB
  - Attenuation resolution: 0.01 dB
- PXI Laser Source And Optical Power Meter
  - Source wavelength: 808 nm

### APPLICATIONS

- Optical signal routing
- Fiber optic systems configuration
- Optical systems test



PXI fiber optic module boards have been designed for a wide range of high technology products

### MODULE TYPES

The following pictures provide a functional block diagram for each type of module.

