



PCIe-Opto-Board

Product Brief 1.0

Key Features

- PCI Express x4 up to 10 Gbps
- 2x SFP 3.25 Gbps Optical Link
- ALTERA Cyclone IV GX FPGA
- Industrial Use
- PCIe-DMA-Engine IP-Core (optional)
- GPL SW drivers available

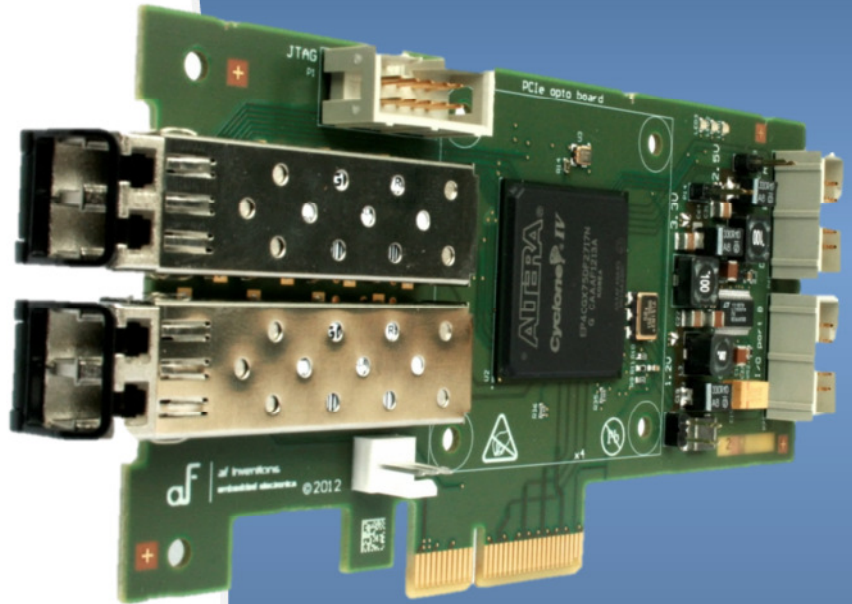
Board Description

The PCIe-Opto-Board offers an off-the-shelf product for a performant, yet economical connection of any hardware to a PCI express host system. The Cyclone IV GX FPGA based design can implement proprietary protocols on the two SFP channels and the powerful PCIe-DMA-Engine IP-core offers high bandwidth transfers in up- and downstream directions.

The low profile half-length PCI Express card is supplied directly from the PCIe slot connector and the board is available with industrial grade FPGA devices and an optional heatsink with active or passive cooling enabling operation in extended temperature ranges.

The board also has 3 LEDs and additional FPGA I/O expansion header connectors that can be used for a stacked add-on board.

The board is proven in industrial systems and Linux 64-bit GPL software drivers are available.



System application

The PCIe-Opto-Board is ideal for connecting one or two external hardware boards to a PC or an embedded computer. Data can be transferred with high bandwidth and low latency from and to the external hardware by means of DMA-engines or direct memory mapped access.

Please contact af inventions for a quote or more information on flexible FPGA design solutions.

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