CoreEL Technologies

Board level solution

PCIe Based Optical Interface Card

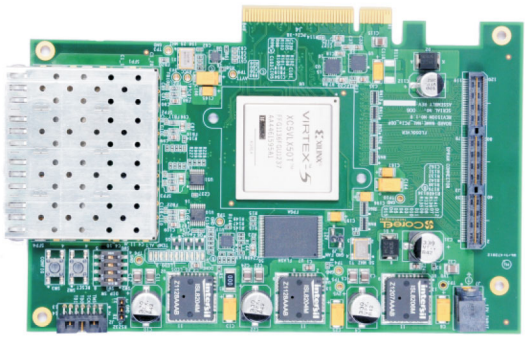
PRODUCT DESCRIPTION

The PCIe Based Optical Interface Card is an x8 lane Gen 1 PCIe board which can be used to connect servers to the network. The board features an FPGA which may be used for implementation of packet processing algorithms. It is an air-cooled board which can be placed on standard PCIe slots.

The board is used along with the Sixteen Channel Reconfigurable Optical Switch. It is used in cluster computing and high speed networking application.

KEY FEATURES

- 4 SFP modules for high speed optical networking
- Auroro protocol for optical communication @ 3.125 Gbps
- PCIe endpoint on FPGA to support communication between server & card
- High performance multi-channel PCIe-DMA support



SPECIFICATIONS

FPGAs

- Xilinx Virtex-5 LX50T FPGA for processing

Interfaces

- x8 lane Gen 1 PCIe
- 4 SFP modules for high speed optical networking
- Samtec 120 pin QTE connector for interfacing to DPRAM

Additional Information

- DPRAM interface as an alternate interface to communication network
- 64 Mbit NOR flash memory

MECHANICAL

- Air cooled PCIe card with x8 lane PCIe edge connector
- The system weighs < 200 grams

POWER CONSUMPTION

- Powered by PCIe Gold finger edge connector with 12V
- Alternate external power input 12V supported
- The board consumes < 15W power

ENVIRONMENTAL

- Temperature range : To be used in controlled temperature environment

PART NUMBER(S)

CB10J0	PCIe based Optical Interface Card