PCle Based Optical Interface Card

PRODUCT DESCRIPTION

The PCle Based Optical Interface Card is an x8 lane Gen 1 PCle 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 PCle 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
- PCle endpoint on FPGA to support communication between server & card
- High performance multi-channel PCle-DMA support

SPECIFICATIONS

FPGAs
- Xilinx Virtex-5 LX50T FPGA for processing

Interfaces
- x8 lane Gen 1 PCle
- 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 PCle card with x8 lane PCle 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 |