

Preview

The main aim of this paper is to present an approach to establish optical fiber communication by employing the standard IEEE 802. Gothenburg, Sweden 2017 The Author grants to Chalmers University of Technology and University of Gothenburg the non-exclusive right to publish the Work electronically and in a non-commercial purpose make it accessible on the Internet. The Author warrants that he/she is the author to the Work, and. Abstract-- The transmission and reception of information such as the data from a sensor, data in form of images, text, voice and videos on Field Programmable Gate Arrays (FPGAs) over ethernet through a coaxial cable, involves attenuation and distortion of signals at certain speed. Since conventional. This thesis addresses the growing demand for faster and more reliable data transfer solutions in data-intensive applications, with a strong emphasis on scalability and flexibility. The pulsed light signals with minimum pulse width of. Abstract: Fiber optic communication is the main communication mode of data communication system nowadays, and its performance directly affects the quality of data communication system.

Aiming at the advantages of optical fiber communication, Xilinx ZYNQ7000 series FPGA chips are used to design a high-speed data optical fiber transmission scheme based on FPGA.

Abstract: Fiber optic communication is the main communication mode of today's data communication system. Its performance directly affects the quality of the data communication system. This paper

We propose a dynamic parameter decoding algorithm for polar turbo product codes (polar-TPC), obtaining performance gains of up to 0.1 dB without additional comp

This paper presents the design of FPGA based developmental board for real time data transmission using Ethernet and fiber optic link. With respect to the requirements, a hardware system with FPGA

One project Ayar is involved in is an FPGA (Field Programmable Gate Array) being developed with Intel. Ayar initially demonstrated a 4 Terabits per second (Tbps) FPGA at the Optical

The optical fibers have greater bandwidth as it uses the electromagnetic spectrum. The data such as picture, voice, and text is sent through optical fiber cable from one end to the other end using FPGA.

The implementation of optical fiber communication system uses the FPGA Verilog language and it can be seen that a good design to meet the system requirements is seen. Now optical fiber

To address these challenges, this paper designs and implements a 10G optical fiber interface reflective memory card based on FPGA. The aim is to meet the growing demand for data

Abstract This article briefly introduces the principles and advantages of optical fiber transmission and the characteristics of the integrated IP core developed by Xilinx. Aiming at the

Baud-rate clock recovery for coherent receivers is realized on a FPGA based real-time DSP platform using a modified Mueller and Müller timing error detector which is multiplication-free and resilient to

The research centers on the design and implementation of a high-speed data transfer system that utilises PCIe over fiber optics. The main objective is to explore how PCIe technology can be

Abstract-- In modern communication systems, optical fiber transmission is widely used because of its low power consumption and wide frequency band. At the same time, by using the SFP (Small Form

To obtain pulsed light signal used as pulsed pump light for optical fiber sensing and communication systems, a design scheme of generating pulsed light based on continuous laser and

To ensure stable, efficient communication and reliable data transmission among various modules of the high-voltage programmable power supply, a multi-channel fiber optic communication system based

The paper describes Skyloom as one of the world leaders in satellite communication services. Mission stated explicitly: redefine optical communications across European civil and military

To address the rapidly growing demand for high-speed data transmission between nodes in real-time distributed systems, this paper designs and implements a 10G optical fiber interface

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