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Independent gigabit optical receiver

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Independent gigabit optical receiver

Gigabit optical receiver for plastic optical fibre , Request PDF

An optical receiver with high sensitivity and linearity specially designed for Giga-bit communicationsoversmall-bandwidthhigh-attenuationmultimodeplasticopticalfiberis presented.

A Roadmap for Gigabit to Terabit Optical Wireless Communications

In this paper, the relative importance of the non-linearity and width of SiPMs' fast output in their performance in receivers is investigated using Monte Carlo simulations.

A SiPM-based VLC Receiver for Gigabit communication using OOK

Request PDF , A SiPM-based VLC Receiver for Gigabit communication using OOK Modulation , The growing demand for wireless communications services means that RF systems are

POF Receiver , Springer Nature Link

Traditionally, optical fiber communications have been exploited for shared long-haul communication links. In such cases, the high cost of transmitter and receiver, fabricated using GaAs

Receiver Front-End for 1.25-Gb/s SI-POF

In this chapter, a novel CMOS receiver front-end has been designed,fabricated and verifiedforshort-rangeopticalcommunicationsover1-mmSI-POFchannels.Firstwewill present the

FTTH Optical wdm Receiver Active GPON Triplexer

ApplicationsHY-21-R32opticalreceiverishomeopticalreceiverwithopticalfiberaccess as its ultimate goal. It is suitable for FTTH (fibre to the home) network

Optocom , Optical Receivers Modules

Our high performance optical receiver modules are uniquely designed to support high-speed transmission signals and protect from electromagnetic interference (EMI).

A Gigabit Optical Receiver with Monolithically Integrated Photodiode in

An optical receiver with monolithically integrated photodiode in a standard 0.18 mum CMOS technology is presented. At 1.2 Gbit/s, the optical sensitivity is -8

A Roadmap for Gigabit to Terabit Optical Wireless Communications

The result would be a receiver that is significantly better than existing receivers for fiber-optic communications operating at 25.78 Gbps. Factors that would make it possible to create receivers

INTEGRATED FIBER-OPTIC RECEIVERS: AN OVERVIEW

Multi-gigabit-per-secondfiber-opticcommunicationscircuitswereonceconsideredtobe

the exclusive domain of high-cost telecom applications; only recently have such circuits found their way into a

Hardware Solutions

CoRX is a compact and calibrated IQ receiver for optical signals with 20, 40, or 60 GHz bandwidth options. Featuring automatic calibration, optional DSP, and

12G-SDI SFP+ Rx 20km Single Optical Receiver

GIGALIGHT 12G-SDI SFP+ Rx is a series of single-fiber unidirectional single-receiver modules (single receiver, no transmitter) designed for high-definition video signal optical transmission applications. It

CMOS Receiver Front-ends for Gigabit Short-Range

This book describes optical receiver solutions integrated in standard CMOS technology, attaining high-speed short-range transmission within cost-effective

A fully integrated CMOS receiver front-end for optic Gigabit Ethernet

A fully integrated fiber-optic receiver chip in a CMOS technology is presented. The design was done in a low-cost mixed-signal analog pure CMOS technology with 0.35-/spl mu/m gate length. It incorporates

Ultrahigh-speed graphene-based optical coherent receiver

This graphene-based optical coherent receiver will promise potential applications in 400-Gigabit Ethernet and 800-Gigabit Ethernet technology, paving another route for

CMOS Multichannel Single-Chip Receivers for Multi-Gigabit Optical

System-Level Requirements In order for optical I/Os to become a viable alternative to electrical interfaces, hundreds of data pads on a Pentium-equivalent chip must be replaced by optical

A gigabit fully integrated plastic optical fiber receiver for a RC-LED

The presented work describes a plastic optical fiber receiver for gigabit transmission using a resonant cavity light emitting diode (RC-LED). The integrated optical receiver is realized in 0.6um BiCMOS

30 Gb/s integrated receiver array for parallel optical interconnects

This work presents the design of a 30 Gb/s optical integrated receiver array in a 0.13 um CMOS technology.

A Low-Noise Inverter-Based Receiver for Gigabit-Per-Second Optical

This paper reports a systematic approach for designing a low noise and low power optical receiver targeting high sensitivity imaging architectures for optical wireless communications.

Wideband Optical Receiver with 2x wideband (V+H) and

The receiver features two wideband ports (vertical and horizontal) and an independent DTT port supporting all FM, DAB and DTT broadcasts. The receiver

CMOS Receiver Front-ends for Gigabit Short-Range Optical Communications

Abstract This book describes optical receiver solutions integrated in standard CMOS technology, attaining high-speed short-range transmission within cost-effective constraints.

Multi-gigabit real-time coherent optical OFDM receiver

We report the first FPGA-based real-time implementation of a multi-gigabit receiver for coherent optical OFDM (CO-OFDM) signal. The basic CO-OFDM signal processing and BER sensitivity performance

CMOS Multichannel Single-Chip Receivers for Multi-Gigabit Optical

CMOS Multi-Channel Single-Chip Receivers for Multi-Gigabit Optical Data Communications provides the reader with the necessary background knowledge to fully understand

Polarization independent coherent optical receiver

This paper describes an optical heterodyne receiver for DPSK signals which can receive an optical signal having an arbitrary polarization state. This is achieved by splitting the received signal between

A Low-Noise Inverter-Based Receiver for Gigabit-Per-

A low-noise shunt-feedback transimpedance amplifier is employed based on the three-stage inverter structure with pseudo-differential output to support gigabit-per-second optical wireless

Terahertz Technologies Inc. LTX-5515R-1310-14 2

Terahertz Technologies Inc. LTX-5515R-1310-14 2 Gigabit Analog Fiber Link Receiver, 1310nm, 14 Bit Allow us to earn your business and make this purchase

A 10-Gb/s inductorless optical receiver in 0.18-um SiGe BiCMOS

A 10 Gb/s optical receiver with the CE and CC TIA has been proposed to achieve high sensitivity and a wide dynamic range. The receiver has been fabricated in a 0.18-um SiGe BiCMOS

Real-time reception of multi-gigabit coherent optical OFDM signals

In this paper, we report the first FPGA-based real-time implementation of coherent optical OFDM (CO-OFDM) receiver with a transmission rate up to 3.1 Gb/s.

A gigabit fully integrated plastic optical fiber receiver for a RC-LED

A single-chip optical receiver with an integrated equalizer is used to achieve a high performance gigabit transmission over step-index plastic optical fiber (SI-POF).

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