

Optical Module Serial-to-Parallel Conversion





Optical Module Serial-to-Parallel Conversion

Power Efficient Optical Serial-to-Parallel Conversion

Power efficient optical serial-to-parallel conversion is proposed using a linear technique based on Fractional OFDM scheme. A Fractional OFDM can mediate between N-OTDM and OFDM

[Read More](#)

Parallel optical interface

A parallel optical interface is a form of fiber-optic technology aimed primarily at communications and networking over relatively short distances (less than 300 meters), and at high bandwidths.

[Read More](#)



Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable

[Read More](#)

(PDF) An optically clocked transistor array with dual

We propose an optically clocked transistor array optoelectronic integrated circuit (OEIC) for both serial-to-parallel and parallel-to-serial

[Read More](#)

80-GB all-optical serial-to-parallel convertor for QPSK signal based on

An all-optical serial-to-parallel converter (SPC) utilizing two cascaded phase modulators and optical band-pass filters (OBPFs) is experimentally investigated and applied to demultiplex an 80-GBd



100-GHz FrOFDM-Based Serial-to-Parallel Converter and QPSK

A novel fractional orthogonal frequency division multiplexing (FrOFDM)-based 100-GHz serial-to-parallel (S-P) converter is experimentally demonstrated. A 10-GHz sinusoidally modulated

[Read More](#)

All optical parallel-to-serial conversion by modified spectral

In this paper, a modified spectral holography structure is demonstrated. Combining the direct space-to-time pulse shaping theory with the modified structure, we can convert a spatial

[Read More](#)



Analytical Investigation of an Optical Serial-to-Parallel Converter

We have investigated the fundamental operation of optical serial-to-parallel converter (OSPC) scheme with phase-shifted preamble, and its application to optical label switching operation.

[Read More](#)

Serial-To-Parallel-Convertor , Mini Projects

A serial to parallel converter comes to rescue in these situations. Serial to parallel convertor can also be considered as a serial-in parallel-out shift register. The

[Read More](#)

Ultrafast All-Optical Serial-to-Parallel Conversion and

A novel scheme for all-optical serial-to-parallel conversion (SPC) is proposed for label recognition of ultrafast asynchronous burst optical packets. Compact SP converter modules were



A novel optoelectronic serial-to-parallel converter for 25-Gbps burst

In this paper, the design and operation of the new SPC is explained after reviewing the fundamentals of performing bit-by-bit serial-to-parallel conversion by using HEMT-arrays and MSM-PDs.

[Read More](#)

A novel approach for high-speed all-optical serial-to-parallel

This is performed using a photonic serial-to-parallel converter based on lithium niobate intensity modulators, and requires no nonlinear optical elements.

[Read More](#)



4-Bit All-Optical Serial-to-Parallel Converter With Sub-dB/cm Delay

This paper extends our previous work on the microring resonator-type serial-to-parallel conversion scheme aimed for all-optical label processing on the silicon photonic platform. In the

[Read More](#)

All-Optical Two-Dimensional Serial-to-Parallel Pulse Converter Using

In this study, we introduce a new concept of all-optical two-dimensional serial-to-parallel pulse converters. Femtosecond optical pulses can be understood as thin plates of light traveling in space.

[Read More](#)

40-Gb/s All-Optical Serial-to-Parallel Conversion Based on a Single SOA



An all-optical serial-to-parallel converter (AOSPC) was experimentally demonstrated. It could potentially be used to process variable-length optical packets. This scheme mainly consists of

[Read More](#)

Ultrafast All-Optical Serial-to-Parallel Conversion and Its

A novel scheme for all-optical serial-to-parallel conversion (SPC) is proposed for label recognition of ultrafast asynchronous burst optical packets. Compact SP converter modules were developed using

[Read More](#)

A Novel Optoelectronic Serial-to-Parallel Converter for

Citations (1) References (30) Abstract A new optoelectronic serial-to-parallel converter (SPC) has been developed to interface 25-Gbps asynchronous optical packets to CMOS circuitry.

[Read More](#)



Ultrafast All-Optical Serial-to-Parallel Converters Based on Spin

Abstract We describe our recent work on all-optical serial-to-parallel converters (SPCs), from the all-optical switches employed in the SPCs to the application of the SPCs for packet processing.

[Read More](#)

Ultra-high-speed optical serial-to-parallel data conversion in a

We demonstrate conversion from 64×10 Gbit/s OTDM to 25 GHz DWDM by time-domain optical Fourier transformation. Using a single silicon nanowire, 40 of 64 OTDM tributaries are simultaneously

[Read More](#)

100 GHz Serial-to-parallel Conversion using N-OTDM-to



We have investigated the fundamental operation of optical serial-to-parallel converter (OSPC) scheme with phase- shifted preamble, and its application to optical label switching operation.

[Read More](#)

Ultra-High-Speed Optical Serial-to-Parallel Data Conversion in a

For the first time, we have experimentally demonstrated optical serial-to-parallel conversion from 640 Gbit/s OTDM to 25 GHz DWDM in both a 3.6 mm silicon waveguide and a 50 m HNLF, based on

[Read More](#)

All-optical serial-to-parallel and parallel-to-serial data converters

We propose new simple and easily expandable schemes of serial-to-parallel and parallel-to-serial all-optical data converters using an MZI. We also experimentally demonstrated their operation. The



Ultrafast All-Optical Serial-to-Parallel Conversion and Its

A novel scheme for all-optical serial-to-parallel conversion (SPC) is proposed for label recognition of ultrafast asynchronous burst optical packets.

[Read More](#)

Optical Serial-to-Parallel Conversion Technique With Phase-Shifted

We have investigated the fundamental operation of optical serial-to-parallel converter (OSPC) scheme with phase-shifted preamble, and its application to optical label switching operation.

[Read More](#)



Ultrafast All-Optical Serial-to-Parallel Conversion and Its Application

A novel scheme for all-optical serial-to-parallel conversion (SPC) is proposed for label recognition of ultrafast asynchronous burst optical packets. Compact SP converter modules were developed using

[Read More](#)

An optically clocked transistor array for dual serial-to

We propose an optically clocked transistor array which performs both serial-to-parallel and parallel-to-serial conversion (time demux/mux) of incoming/outgoing packets, enabling a low

[Read More](#)

80-GB all-optical serial-to-parallel convertor for QPSK signal based on

Abstract An all-optical serial-to-parallel converter (SPC) utilizing two cascaded phase



modulators and optical band-pass filters (OBPFs) is experimentally investigated and applied to demultiplex an 80

[Read More](#)

Ultra-High-Speed Optical Serial-to-Parallel Data

In this paper, we demonstrate the first optical serialto-parallel conversion in a silicon device using four-wave

[Read More](#)

4-Bit All-Optical Serial-to-Parallel Converter With Sub-dB/cm Delay

We hereby verify that the proposed serial-to-parallel conversion scheme incorporated with rib waveguide delay lines is a realistic solution in realizing a photonics-based solution to all

[Read More](#)



Contact Us

For datasheets, pricing, or custom data center infrastructure solutions, please visit:
<https://zeldaterblanchephotography.co.za>