

Dual-mode switch with optical port



Overview

In this paper, we design and experimentally demonstrate a topology-optimized silicon-based dual-mode 4×4 electro-optic (EO) switch. Fiber optic switches, multiplexers and demultiplexers block or route optical signals in a fiber optic network. The switches utilize a multimode interference-based Mach-Zehnder interferometer combined with thermo-optic phase. Silicon-based optical switch is one of the key components for on-chip optical interconnect systems, and mode division multiplexing technology has been employed to boost optical switches' channel capacity. However, the majority of the proven multimode optical switches have a switching time in the. Lfiber's optical switches (singlemode/multimode fiber switches) are micro-optic-based, opto-mechanical switches. It works best with Fibertronics Cat6 or Cat 5e Ethernet patch cables. The dual-mode Mach-Zehnder interferometer switch comprises of four p-i-n phase.

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Here, a 1×2 dual-mode optical switch is proposed and experimentally demonstrated, where the E 11 and E 21 modes can be switched output from either of the two output ports ...



In this paper, we propose a novel compact 2×2 four-mode optical switch enabling the switching operation of four modes simultaneously, which is based on Y-junction couplers and 2×2 ...



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In this Letter, we demonstrate a dual-mode 2×2 electro-optical switch on a silicon-on-insulator platform. The dual-mode Mach-Zehnder interferometer switch comprises of four p-i-n phase shifters and two ...



In this paper, we design and experimentally demonstrate a high-speed dual-mode 4×4 optical switch based on a mode-diversity scheme, composed of four pairs of mode multiplexers and de ...



Lfiber's optical switches (singlemode/multimode fiber switches) are micro-optic-based, opto-mechanical switches. These fiber switches offer a cost-effective way to provide flexibility in optical network ...



It supports dual optical fiber, with a 100Base-T maximum transmission distance of 2km. It is an ideal for commercial office applications, connecting floor together in multi-level buildings and other optical ...



We propose and experimentally demonstrate a scalable, high-performance silicon multimode optical switch based on a robust Mach-Zehnder interferometer (MZI) architecture for arbitrary mode-to-dual ...



In this work, we present a compact, energy-efficient, and low-loss $1 \times N$ ($N = 2, 4$) dual-mode optical switch designed for the first two transverse electric (TE) modes. The switch is ...



Our multimode switches come standard with 1 meter 62.5/125 μm MM fiber with 900 μm jacket with options of no connectors or FC/PC connectors. These prism optical switches are housed in a ...

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