FTTR Application-Level Core Switch Silicon Photonics Selection Guide

What are Pluggable Optical Transceivers? Pluggable optical transceivers are compact, hot-swappable network interface modules that serve as the critical bridge between electronic and ...

Silicon photonics is an attractive technology for Photonic Integrated Circuits (PICs) because it builds directly on the extreme maturity of the silicon nano-electronics world. Thereby it opens a route ...

Comprehensive early review that organizes modulation mechanisms and trade-offs in silicon, giving newcomers a guide for device selection, drive requirements and integration.

In this paper, silicon-integrated optical switches are classified according to the underlying structure and recent research is reviewed. Recent studies on silicon-integrated optical switches incorporating ...

We outline critical requirements for constructing scaled switch fabrics from elementary cells. We investigate similarities and differences between a number of commonly utilized topologies.

The primary function of silicon photonics in the data center is data transmission between very high-performance CMOS compute chips and switches, and probably memory pools.

In this paper, we systematically discuss the state of art of the silicon photonic switch engine, for example, MZI, MRR and MEMS waveguide coupler.

One such emerging technology is the optical circuit switch, which can increase the performance, flexibility, and power consumption of data centers. The optical circuit switch presented ...

In this study, we categorised silicon-integrated optical switches by their internal mechanisms and discussed the most advanced literature on the subject. We additionally take a look ...

Thus, this review article mainly focuses on the principle and state of the art of 2 × 2 silicon photonic switches, including electro-optic switches, thermo-optic switches, and nonvolatile...

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