Low-loss optical core router for distribution network automation

A novel and highly efficient optical router is introduced, offering improved efficiency and reduced loss in on-chip optical communication and aims to contribute to enhancing on-chip processing capabilities ...

Optimized to be compact, power efficient and compatible with any type of host (routers, switches, transport)

Nowadays in the rapidly evolving field of System on Chip (SoC) technology, the demand for efficient on-chip processing has increased. To address these requireme.

Find out how Cisco Routed Optical Networking can reduce your network CapEx, energy consumption, footprint, and labor costs. Discover the economic benefits of routed optical networks for DCI, metro, ...

The optical network-on-chip (ONoC) has the advantages of high bandwidth, low latency and high performance, so it has gradually become a research hotspot of on-c

Routed Optical Networking collapses complex technologies and network layers into a single cost efficient and easy to manage network infrastructure. Here we present the Cisco Routed ...

The optical router is a core of ONoC that routes the optical signal from one port to another. The efficient and compact design of the optical router reduces power consumption, crosstalk noise, ...

Numerous ONoCs relying on WDM were proposed. Among these networks, wavelength routing scheme can be used to propagate data from a source IP core to a destination IP core, thus leading to a ...

In this paper, we present two innovative designs of five port non-blocking ONoC routers constructed by using micro-ring resonators and waveguides for low power losses and the optimum ...

This application note explains how the Nokia Network Services Platform (NSP) brings a holistic approach to IP-optical multilayer operational automation and network optimization of coherent routing ...

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