

# Optical Measurement of Telecom Optical Cross-Connect Box

To meet the challenge of managing the bandwidth within emerging "terabit offices" enabled by DWDM, Lucent and other vendors are aggressively pursuing research and development of optical cross ...

An optical cross-connect (OXC) is a device used by telecommunications carriers to switch high-speed optical signals in a fiber optic network, such as an optical mesh network.

This will result in a significant increase in the number of wave-length paths that are to be cross-connected at nodes, and hence optical node throughput needs to be greatly enhanced.

In this paper, the crosstalk of four different OXC topologies is calculated and compared with each other, and the influence of the component crosstalk on the total crosstalk is identified.

Prevailing measurement methods include source-meter end-to-end loss measurements, as well as optical time domain reflectometer methods. The remaining sections of this document discuss these ...

To address this issue, this letter proposes a two-phase approach to construct modular large-scale OXCs, using a set of small-size OXC modules.

An optical cross-connect (OXC) is a network device that switches high-speed optical signals between fiber inputs and outputs without converting them to electronics.

To economically expand the capacity in the core network of the NTT Group, NTT Network Innovation Center developed the Beyond 100G Optical Cross Connect (B100G-OXC) system, which enables ...

NECT MODEL Optical cross-connect devices are modeled after the many-port model : that is, N input ports and N output ports, with a table that defines the connectivity between input and one or mo. e ...

Abstract This paper investigates the effect of crosstalk in optical cross-connect (OXC) utilizing MZI (Mach-Zehnder Interferometer).

As the core switching unit of the optical network, the scalability and economic efficiency of the optical cross-connect (OXC) not only determine the flexibility of the network topology, but...



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