

Optical Module WSS



Overview

WSS modules are programmable optical devices used in Reconfigurable Optical Add-Drop Multiplexers (ROADMs) to select, switch, and redirect wavelength channels over fiber links. They provide flexibility for WDM networks, enabling dynamic bandwidth allocation and network optimization. A WSS comprises a switching array that operates on light that has been dispersed in wavelength without the requirement that the. Wavelength Selective Switches (WSS) provide agility in optical networks via their ability to reconfigure traffic and enable bandwidth sharing at the optical layer. Molex offers WSS products in Single- and Twin- formats, with port counts ranging from Single 1x2 to Twin 1x32+ products.



Article Content

GlobalFoundries' Unveils Optical Module Solution Targeting CPO

GlobalFoundries (GF) has introduced an optical module solution for co-packaged optics (CPO). According to the company, the Silicon photonics Co-packag

A Brief Introduction to Wavelength Selective Switch

By incorporating WSS modules, they gain the ability to selectively manage specific wavelengths of light, improving signal reconfiguration and

The 1.6T Surge: Silicon Photonics and CPO Redefine AI Data Centers

The technical backbone of this 2026 surge is the 1.6T optical module, a breakthrough that doubles the bandwidth of the previous 800G standard while significantly improving efficiency.

Optical module design resources | TI

View the TI Optical module block diagram, product recommendations, reference designs and start designing.

\$LITE KEY READ-THROUGHS FROM LUMENTUM HOLDINGS INC

In prepared remarks, Lumentum said WSS keeps traffic “in the optical domain, bypassing the latency of electrical buffers.” Transmission mechanism: OCS and WSS allow traffic to remain

Optical Interconnect Technology Analysis: LPO, NPO,

Exploring optical interconnects for AI data centers: LPO for low-power, short-distance links, NPO for high-density, near-package connections,

Overview of Common Wavelength Selective Switch (WSS) Module

Wavelength Selective Switch (WSS) is a critical component in optical communication systems, enabling wavelength selection and routing in Wavelength Division Multiplexing (WDM)

Over 20 Million 400G & 800G Datacom Optical Module

BOSTON (January 7, 2025) – Total shipments of leading-edge datacom optical modules are projected to tally over \$9 billion for 2024, according to the latest

OFC 2026 Special: Arista Leads XPO Launch as Three

Discover the major industry shift at OFC 2026 as Arista Networks and global leaders unveil the XPO MSA, Open CPX, and OCI MSA to solve AI

Global LPO Optical Transceiver Module Market 2025

LPO Optical Transceiver Module Market Analysis: The Global LPO Optical Transceiver Module Market size was estimated at USD 153 million in 2023 and

Wavelength Selective Switch (WSS) Modules

Wavelength Selective Switches (WSS) provide agility in optical networks via their ability to reconfigure traffic and enable bandwidth sharing at the optical layer.

Wavelength Selective Switch (WSS) Solutions - InLC

High-Performance WSS for ROADM & Optical Circuit Switching. InLC's WSSs feature the industry's lowest power consumption, very fast response time and

TrueFlex Twin High Port Count Wavelength Selective

The TrueFlex® Twin WSS enables the introduction of colorless and directionless wavelength add/drop at optical network nodes. This minimizes provisioning

Optical Module Stocks Surge Over 6% as 1.6T Era Begins

Driven by accelerating AI infrastructure demand, key optical module stocks like InnoLight and Eoptolink surged after a Huatai Securities report confirmed 1.6T modules have entered

Optical chips and WSS modules | Weyland

Photonic chips and Wavelength Selective Switch (WSS) modules are essential in modern optical networks, enabling high-speed, flexible, and programmable optical communication.

WSS Module Technology for Advanced ROADM | NTT

A schematic diagram of the 1 × 9 WSS optical module developed by NTT is shown in Fig. 3. A compact and stable module is implemented by arranging each

Kyocera Develops Pluggable Optoelectronic Module

Kyocera Corporation (President: Hideo Tanimoto, hereinafter "Kyocera") is pleased to announce the development of a pluggable

200G Optical Module Market Report: Size, Growth,

200G Optical Module Market size was valued at USD 2.5 Billion in 2023 and is projected to reach USD 5.1 Billion by 2031, growing at a CAGR of 14.2% The

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ROADM and Wavelength Selective Switches

Wavelength Selective Switches (WSS) are a critical enabler of Reconfigurable Optical Add-Drop Multiplexers (ROADMs)— the heart of these systems. Manufacturing test engineers across the

GlobalFoundries accelerates adoption of co-packaged optics for

MALTA, N.Y., May 4, 2026 – GlobalFoundries (Nasdaq: GFS) (GF) today announced the introduction of its SCALE™ optical module solution for co-packaged optics (CPO). GF's SCALE solution, or Silicon

Lumentum shows AI data center optics at OFC 2026 | LITE Stock News

The Quad integrated C+L band 3x33 WSS module is targeted for multi-rail terminal WSS applications and is a proof-of-concept design that can be rapidly brought into production. Multi-rail

Optical Module Supply Chain Financial Data Tracking · Issue 1, May

Optical Module Supply Chain Financial Data Tracking · Issue 1, May 2026 This week covers the disclosure window from late April to early May. Core signals indicate that leading

Wavelength Selective Switches (WSS) Modules | GLSUN

GLSUN's Wavelength Selective Switch (WSS) module mainly includes specifications such as Single 9D/Twin 20D, with wavelength coverage ranging from 96 to 120 channels in the C-band. It supports

Samsung Foundry Reportedly Wins Optical Module Order,

Samsung Foundry is reportedly stepping up its silicon photonics efforts. According to ZDNet, the company said in its 1Q26 earnings release that its foundry has secured orders from a

Chinese Funds Lift Investment in Optical Module Stocks Amid AI

Zhongji Innolight, a core investment target among the optical module concept stocks, has become the top stock heavily held by public funds, while Eoptolink Technology and Dongshan

Samsung Foundry Reportedly Wins Optical Module Order,

As a result, optical transmission technologies are becoming increasingly important. TrendForce forecasts that co-packaged optics (CPO) will steadily increase their share of optical

Optical Communication Industry Trends 2026: AI, 800G/1.6T Optical ...

Explore optical communication industry trends in 2026, driven by AI infrastructure, 800G and 1.6T optical modules, silicon photonics, and next-generation data center connectivity solutions.

200G Optical Module Market 2025

200G Optical Module Market was valued at 2625 million in 2024 and is projected to reach US\$ 4991 million by 2032, at a CAGR of 9.9%

Contact Us

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