

# Global Wavelength Selective Switch (WSS) Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G91A7B5FE1DBEN.html>

Date: January 2026

Pages: 93

Price: US\$ 4,480.00 (Single User License)

ID: G91A7B5FE1DBEN

## Abstracts

The global Wavelength Selective Switch (WSS) market size is expected to reach \$ 588 million by 2032, rising at a market growth of 14.4% CAGR during the forecast period (2026-2032).

Wavelength selective switching components are used in WDM optical communications networks to route (switch) signals between optical fibres on a per-wavelength basis. WSS has become the central heart of modern DWDM reconfigurable Agile Optical Network (AOC). WSS can dynamically route, block and attenuate all DWDM wavelengths within a network node. A WSS consists of a single common optical port and N opposing multi-wavelength ports where each DWDM wavelength input from the common port can be switched (routed) to any one of the N multi-wavelength ports, independent of how all other wavelength channels are routed. There are also variable attenuation mechanism in WSS for each wavelength. So each wavelength can be independently attenuated for channel power control and equalization. Wavelength selective switching components are used in WDM optical communications networks to route (switch) signals between optical fibres on a per-wavelength basis. WSS has become the central heart of modern DWDM reconfigurable Agile Optical Network (AOC). WSS can dynamically route, block and attenuate all DWDM wavelengths within a network node. A WSS consists of a single common optical port and N opposing multi-wavelength ports where each DWDM wavelength input from the common port can be switched (routed) to any one of the N multi-wavelength ports, independent of how all other wavelength channels are routed. There are also variable attenuation mechanism in WSS for each wavelength. So each wavelength can be independently attenuated for channel power control and equalization.

Global core manufacturers of Wavelength Selective Switch (WSS) include Coherent (Finisar), Lumentum and Mox. China is the largest consumption region, accounting for

approximately 63% of the global market, followed by Southeast Asia. In terms of technology, LCOS based WSS modules are the largest market segment, with a share of more than 61%. In terms of port, the largest application is high port (from 1x9), with a share of approximately 76%.

This report studies the global Wavelength Selective Switch (WSS) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wavelength Selective Switch (WSS) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Wavelength Selective Switch (WSS) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Wavelength Selective Switch (WSS) total production and demand, 2021-2032, (Units)

Global Wavelength Selective Switch (WSS) total production value, 2021-2032, (USD Million)

Global Wavelength Selective Switch (WSS) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Wavelength Selective Switch (WSS) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Wavelength Selective Switch (WSS) domestic production, consumption, key domestic manufacturers and share

Global Wavelength Selective Switch (WSS) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Wavelength Selective Switch (WSS) production by Technology, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Wavelength Selective Switch (WSS) production by Port, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Wavelength Selective Switch (WSS) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Coherent (Finisar), Lumentum, Molex, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Wavelength Selective Switch (WSS) market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Technology, and by Port. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Wavelength Selective Switch (WSS) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Wavelength Selective Switch (WSS) Market, Segmentation by Technology:

LCOS Based WSS Modules

MEMS Based WSS Modules

## Global Wavelength Selective Switch (WSS) Market, Segmentation by Port:

Low Port (to 1x9)

High Port (from 1x9)

## Companies Profiled:

Coherent (Finisar)

Lumentum

Molex

## Key Questions Answered:

1. How big is the global Wavelength Selective Switch (WSS) market?
2. What is the demand of the global Wavelength Selective Switch (WSS) market?
3. What is the year over year growth of the global Wavelength Selective Switch (WSS) market?
4. What is the production and production value of the global Wavelength Selective Switch (WSS) market?
5. Who are the key producers in the global Wavelength Selective Switch (WSS) market?
6. What are the growth factors driving the market demand?

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