

Article Overview

Passive WDM devices typically range from \$50 to \$500 per channel depending on type, channel count, and manufacturer.

Overview

A passive wavelength division multiplexer (WDM) is an optical component that combines or separates multiple wavelengths of light on a single fiber without requiring electrical power, commonly used in fiber-to-the-home (FTTH) and high-bandwidth optical networks . Passive WDMs include coarse WDM (CWDM) and dense WDM (DWDM), with CWDM generally being less expensive due to wider channel spacing and simpler design .

Price Factors

o Type and Channel Count:

o CWDM devices with 4-8 channels are typically \$50-\$150 per channel.

o DWDM devices with 16-40 channels can cost \$200-\$500 per channel due to tighter wavelength tolerances and higher precision requirements .

o Manufacturer and Technology:

o Leading suppliers like Pro Optix, Opticonnects, and ProLabs offer competitive pricing, with premium models featuring low insertion loss, high isolation, and polarization-maintaining capabilities costing more .

o Regional Availability:

o Prices vary by region due to shipping, import duties, and local demand. North America and Europe generally have higher prices compared to Asia-Pacific markets .

o Market Trends:

o The passive WDM market is growing rapidly, with a projected CAGR of 15.8% and increasing adoption in 5G, cloud, and data center networks, which may influence pricing due to demand and supply dynamics .

Practical Price Range

o Small CWDM modules (4-8 channels): \$200-\$1,200 per unit

o Medium CWDM/DWDM modules (8-16 channels): \$1,000-\$4,000 per unit

o High-density DWDM modules (40+ channels): \$5,000-\$20,000 per unit depending on specifications and manufacturer

Price of Passive Wavelength Division Multiplexers

Conclusion

While exact pricing depends on specifications, passive WDMs are generally affordable for small-scale deployments, with costs increasing for higher channel counts, tighter tolerances, and advanced features. For precise quotes, contacting suppliers like CSRAYZER, Lfiber, or ProLabs is recommended, as they can provide pricing based on channel count, wavelength range, and connector type .

Overview The FiberPlex WDP8 is a rack-mountable passive 8 channel coarse wavelength division multiplexer. Unlike the similar

The wavelength division multiplexing (WDM) equipment market is segmented into multiplexer type, vertical and region.

BlueOptics offers a premium selection of passive CWDM (Coarse Wavelength Division Multiplexing) and DWDM (Dense Wavelength

Early WDM systems were expensive and complicated to run. However, recent standardization and a better understanding of the

Find here online price details of companies selling Wavelength Division Multiplexer. Get info of suppliers, manufacturers, exporters,

The Wavelength Division Multiplexer (Wdm) and Splitters Market worth \$4.8 Billion as of 2026 is on track to achieve \$10.17 Billion by

Wavelength Division Multiplexer (Wdm) and Splitters are passive and active photonic components that combine or separate multiple

The Passive WDM (Wavelength Division Multiplexer) market, exceeding several million units annually by 2025, exhibits

Model : AWG-100-40 Price: US\$250.00 US\$175.00 Coarse Wavelength Division Multiplexer (CWDM Module)

Corning offers high performance 100 GHz Dense WDM Multiplexers and Demultiplexers for ITU channel spacing applications. The

All the FWDM multiplexers offer low insertion loss, low polarization dependence, high isolation and excellent

Price of Passive Wavelength Division Multiplexers

environmental stability.

Dense Wavelength Division Multiplexer (DWDM) available with multiple options, configurations, and form factors PPC DWDM

Corning's dense wavelength division multiplexers (DWDMs) are integrated optical modules that combine, or multiplex, and separate,

The Passive WDM market is booming, driven by surging data traffic and 5G expansion. Discover key trends, market

Global pricing trends across wavelength division multiplexing solutions 5.2. Component-level pricing analysis for

Wavelength Division Multiplexers (WDMs) - Advanced Optical Signal Management Wavelength Division Multiplexers (WDMs) are

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