

Single-fiber wavelength division multiplexer price quote



AI Overview

Single-fiber WDMs typically range from \$100 to \$500 per unit, depending on wavelength, channel count, and polarization-maintaining features.

Overview A single-fiber Wavelength Division Multiplexer (WDM) is an optical device that combines or separates multiple wavelengths on a single optical fiber, commonly used in fiber-optic communications, fiber lasers, and amplifiers. These devices can be coarse WDM (CWDM) with fewer channels and wider spacing, or dense WDM (DWDM) with many closely spaced channels. Single-mode WDMs are often built using Fused Biconic Taper (FBT) or thin-film filter technology, with options for polarization-maintaining fibers.

Price Factors The cost of a single-fiber WDM depends on several factors:

- Wavelength range:** Common telecom wavelengths (1310 nm, 1550 nm) are generally less expensive than specialized NIR or visible wavelengths.
- Channel count:** Two-channel WDMs are cheaper than multi-channel CWDM or DWDM devices.
- Polarization-maintaining (PM) capability:** PM WDMs cost more due to precise fiber alignment and micro-optic filter technology.
- Connector type:** FC/PC, FC/APC, LC/UPC, or unterminated leads can slightly affect pricing.
- Insertion loss and extinction ratio:** Higher-performance devices with low insertion loss and high isolation are priced higher.

Typical Price Range

- Standard 2-channel single-mode WDM: \$100–\$200 per unit.
- Polarization-maintaining or specialized wavelength WDM: \$250–\$500 per unit.
- Custom multi-channel DWDM modules: Can exceed \$500 depending on channel count and spacing.

Purchasing Options Manufacturers like Thorlabs, Agiltron, and CSRAYZER offer WDMs from stock or custom configurations. For exact pricing, it is recommended to request a quote from the supplier, as prices vary with quantity, wavelength specifications, and performance requirements. In summary, a single-fib...

Article Content

Optical Multiplexing

Optical Multiplexing This guide gives a top level understanding of Wavelength Division Multiplexing, Coarse Wavelength Division Multiplexing and Dense

Wavelength-Division Multiplexing (WDM) — FindLight

Compare Wavelength-Division Multiplexing (WDM) components for fiber networks, review specs, and request quotes directly from multiple suppliers.

Single Fiber CWDM OADM, Add/Drop Multiplexer

"Simplex CWDM OADM for East-and-West Traffic" is a device designed for unidirectional optical fiber communication, specifically for managing traffic in either the east or west direction.

DWDM Mux Demux Solutions | Wholesale Factory Supplier

DWDM Product Category Overview Overview: Dense Wavelength Division Multiplexing (DWDM) is a technology that increases fiber bandwidth by transmitting multiple optical carrier signals on a single

Singlemode Wavelength Division Multiplexer

Get a price quote for Singlemode Wavelength Division Multiplexer (1310/1550, 1480/1550) -WDM Series directly from GKER Photonics | Ask questions and find

What is CWDM (Coarse Wavelength Division

What is Coarse Wavelength Division Multiplexing? Coarse Wavelength Division Multiplexing (CWDM) is a kind of Wavelength Division

Wavelength Division Multiplexers (WDM) Selection

How To Select Wavelength Division Multiplexers Image Credit: Microwave Photonic Systems Inc. Wavelength division multiplexers (WDM) are electronic devices that

Singlemode Wavelength Division Multiplexer (1310/1550nm and

Get a price quote for Singlemode Wavelength Division Multiplexer (1310/1550nm and 1480/1550nm) directly from GKER Photonics | Ask questions and find out technical details and specifications.

Coarse Wavelength Division Multiplexers -CWDM Series

Get a price quote for Coarse Wavelength Division Multiplexers -CWDM Series directly from GKER Photonics | Ask questions and find out technical details and specifications.

Wavelength-Division Multiplexing (WDM)

Two types are available: integrated arrayed waveguide gratings (AWG), offering low cost, compact size, and precise ITU grid alignment; and discrete filter-based WDMs, providing greater flexibility to

Single-Mode Wavelength Division Multiplexer

Chapter 2: Detailed analysis of Single-Mode Wavelength Division Multiplexer manufacturers competitive landscape, price, sales and revenue market share, latest development

CWDM (coarse wavelength division multiplexing)

Coarse Wavelength Division Multiplexing (CWDM) is a technology used in fiber optic communication networks to increase the bandwidth capacity of a single optical fiber by transmitting

Wavelength Division Multiplexing – Buyer's Guide

This buyer's guide for wavelength division multiplexing provides technical background, comparison of major types, selection criteria, and an overview of

IR, 2-Wavelength, Single Mode WDMs (≥ 980 nm)

These WDMs are designed to combine light from a beam in the 600 - 800 nm range with a signal at 2000 nm into a single fiber. For example, a red alignment beam

Single-Mode Wavelength Division Multiplexer Market, Report Size,

Single-Mode Wavelength Division Multiplexer is a passive optical device that combines multiple optical signals of different wavelengths into a single single-mode fiber for transmission, or separates multiple

Wavelength Division Multiplexer

Explore a wide range of our Wavelength Division Multiplexer selection. Find top brands, exclusive offers, and unbeatable prices on eBay. Shop now for fast shipping and easy returns!

Wavelength Division Multiplexing | WDM Technology in

For more information on WDM technology, please visit our Wavelength Division Multiplexers (WDM) Solutions. Click here to get in contact

Dense Wavelength Division Multiplexer

The GKER Photonics GK-BPDWDM Series Dense Wavelength Division Multiplexer (DWDM) is engineered to deliver high performance in demanding optical network applications.

What is WDM or DWDM?

What is WDM or DWDM? Wavelength Division Multiplexing (WDM) is a fiber-optic transmission technique that enables the use of multiple light wavelengths (or

Understanding CWDM: Coarse Wavelength Division

This single statement reflects the importance of achieving maximization of returns by minimization of costs. As a crucial technology for

Fiber WDMs, Combiners, Splitters and Couplers

- Get your individual quote. - Technical compatibility review included. - Volume discounts available. No obligation. Direct access to our engineering team.

WDM Singlemode 1480/1550nm 9000um 1m

Wavelength Division Multiplexing, a technology that simultaneously transmits multiple channels (wavelength) through a single optical fiber. WDMs are bidirectional, they split two wavelengths from

Global Single-Mode Wavelength Division Multiplexer Market Outlook,

The global Single-Mode Wavelength Division Multiplexer market is projected to grow from US\$ 2184 million in 2024 to US\$ 3151 million by 2031, at a CAGR of 5.4% (2025-2031), driven by

Single-Mode Wavelength Division Multiplexer | WaveQuanta

Browse 32+ fiber optics from WaveQuanta's catalog. Detailed specifications, datasheets, and 3D models available for each product. Request a quote today.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://sphplantsales.co.za>

Email: info@sphplantsales.co.za

Phone: +27 64 827 3915

Address: Unit 9, Highveld Technopark, 43 Atlas Road, Johannesburg, 2196,
South Africa

This document is for informational purposes only. Specifications subject to
change without notice.

