

Price of Low-Noise AWG Wavelength Division Multiplexer for Field Operations in Nepal



AI Overview

Low-noise AWG WDMs suitable for field deployment typically range from \$500 to \$2,500 per unit, depending on channel count, wavelength spacing, and environmental specifications.

Overview Low-noise Arrayed Waveguide Grating (AWG) Wavelength Division Multiplexers are used to combine or separate multiple optical channels in fiber-optic networks. They are available in dense WDM (DWDM) configurations with channel spacings of 50 GHz, 100 GHz, or 200 GHz, supporting up to 88 channels or more. Athermal AWGs are particularly suitable for field operations, as they operate reliably in outdoor temperatures from -30°C to $+70^{\circ}\text{C}$ without requiring electrical stabilization.

Price Factors The cost of AWG WDMs depends on several factors:

- Channel Count:** Higher channel counts (e.g., 96 channels) increase the price due to more complex fabrication.
- Channel Spacing:** Narrower spacing (50 GHz) requires higher precision, raising costs.
- Environmental Tolerance:** Athermal or ruggedized units for outdoor use are more expensive than standard indoor models.
- Manufacturer and Customization:** Brands like Agiltron, HJ Optronics, and Corning offer standard and custom configurations, which can affect pricing.
- Shipping and Import Duties:** For Nepal, import taxes, shipping, and customs fees can add 15–30% to the base price.

Typical Price Range Based on available market data:

- Small-scale AWG WDMs (4–16 channels, standard indoor use): \$500–\$1,000 per unit.
- Medium-scale AWG WDMs (32–64 channels, low-noise, outdoor-capable): \$1,000–\$1,800 per unit.
- High-density AWG WDMs (88–96 channels, athermal, ruggedized for field operations): \$1,800–\$2,500 per unit.

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Article Content

AWG Multiplexer Wholesale, Arrayed Waveguide Grating

PHXFIBER provides AWG Multiplexer with high quality and unique design. This kind of arrayed waveguide grating is of reasonable and attractive price. This AWG grating has low insertion loss,

NeoPhotonics Unveils AWG Multiplexers/De-Multiplexers for High

NeoPhotonics has introduced new Arrayed Waveguide Grating (AWG) multiplexers and de-multiplexers for high capacity, high baud rate, coherent transmission systems.

Optimization Method for Center Frequency Accuracy of High ...

The arrayed waveguide grating (AWG) is an essential component in dense wavelength division multiplexing (DWDM) systems. With advancements in optical communication technology, the

Wavelength Division Multiplexing – Buyer's Guide & Suppliers

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

What is AWG: Arrayed Waveguide Grating in Optical MUX/DEMUX

An Optical AWG (Arrayed Waveguide Grating) is a passive photonic device used to multiplex and demultiplex multiple optical wavelengths in fiber optic networks. AWGs play a key role in DWDM

LWDM — Enablence

LWDM MUX About Enablence LAN Wavelength Division Multiplexing (LWDM) optical multiplexer (MUX) is available using our proprietary Vortex design. The

Low-Loss and Laser Damage Resistant O-Band AWG Multiplexer

As an example, an 18-channel wavelength-division (de)multiplexer with a channel spacing of 200 GHz is designed and fabricated. The measured excess loss is about 8 dB and the

Wholesale DWDM Mux Fiber Optic Compatible | Alibaba

Discover high-quality DWDM mux/demux modules for sale at average prices around \$372. Purchase from just 1 unit, ideal for wholesalers and distributors. Available in large volumes, suitable for 100G

Wavelength-division multiplexing

In fiber-optic communications, wavelength-division multiplexing (WDM) is a technology which multiplexes a number of optical carrier signals onto a single

High Assembly Tolerance and Cost-Effective 100-Gb/s TOSA With

High Assembly Tolerance and Cost-Effective 100-Gb/s TOSA With Silica-PLC AWG Multiplexer Abstract: A low-cost hybrid-integrated transmitter optical sub-assembly (TOSA) for a 100-Gb/s

Ultra-Low-Crosstalk Silicon Arrayed-Waveguide Grating (De)multiplexer ...

A high-performance silicon arrayed-waveguide grating (AWG) with 1.6-nm channel spacing is proposed and realized for dense wavelength-division (de)multiplexing systems. For the

AWG Arrayed Waveguide Grating Dense Wavelength Division

Please refer to Data sheet for detailed specifications. If you need a different model number, please feel free to ask a quotation.

Fiberdyne Labs, Inc. AWG DWDM Field Modules

Fiberdyne Labs' Dense Wavelength Division Multiplexer (DWDM) modules use 100GHz Athermal Arrayed Waveguide (AAWG) technology. The module can also provide a splitter (i.e. tap), for

Low cost 50GHZ 96CH AAWG Wavelength Division Multiplexer

Athermal AWGs can be used as direct replacements for Thin Film Filters for cases where no power is available at the shelf and they can also be used outdoors over -30°C to +70°C in access applications,

Athermal AWG Module

WDM is an acronym for Wavelength Division Multiplexer. The main purpose of the WDM is to increase bandwidth capabilities on a single optical fiber. Signals are sent using different wavelengths across

Design of 4-channel AWG Multiplexer/demultiplexer for CWDM system ...

Abstract Arrayed Waveguide Grating (AWG) for Coarse wavelength division multiplexing (CWDM) system is a key component of above 100Gb/s high-speed optical transmission module in

Improving Channel Uniformity of Multiplexer with High-Degree-of

Recent demonstrations of on-chip silicon AWGs achieve remarkable performance in FBG demodulation, enabling high-accuracy, wide-dynamic-range, and continuous wavelength

Wavelength Division Multiplexing

Wavelength division multiplexing is a multiplexing technique working in the wavelength domain. It is commonly used in the area of optical fiber

Wavelength Division Multiplexer at Best Price in India

Find here online price details of companies selling Wavelength Division Multiplexer. Get info of suppliers, manufacturers, exporters, traders of Wavelength Division Multiplexer for buying in India.

Nepal Telecom Exam: Multiplexing Techniques | PDF | Wavelength Division ...

This document provides an overview of different multiplexing techniques including space division multiplexing (SDM), frequency division multiplexing (FDM), time division multiplexing (TDM),

Arrayed Waveguide Grating

Introduction Arrayed Waveguide Gratings (AWG) are optical Due to their ability to multiplex large numbers of wavelengths into a planar devices that are usually used as multiplexers/ single optical

AWG Multiplexers

Shop high-quality awg multiplexers for reliable fiber optic networking. Find durable, efficient solutions from leading suppliers. Perfect for DWDM applications.

Nepal Wavelength Division Multiplexer Market (2025-2031 ...

6Wresearch actively monitors the Nepal Wavelength Division Multiplexer Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and

Wavelength multiplexer

Find your wavelength multiplexer easily amongst the 22 products from the leading brands (Yangtze Optical Electronic, T& S Communications, Huahuan, ...) on DirectIndustry, the industry specialist for

Optically Multiplexed Systems: Wavelength Division Multiplexing

nals simultaneously, it increased the transmission rates exponentially. This ushered in the need of multiplexers, specifically wavelength division multiplexers. A few popular optical multiplexing

Optically Multiplexed Systems: Wavelength Division Multiplexing

This is where wavelength division multiplexing comes in where different channels are multiplexed into a single fiber. It divides the huge bandwidth of optical fiber into various logical

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

Contact Us

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