

Intelligent Tunable Optical Module



Overview

Tunable DWDM optical modules enable dynamic wavelength switching across 96 C-band channels via software commands. Unlike fixed-wavelength designs, they reduce spare part types by over 95%, support remote wavelength scheduling, and enable colorless optical layer resource pooling. The module supports data rates from 9.3 Gbps and is provided in an SFP+, MSA-compliant package. However, it possesses an additional feature that sets it apart—the capability to adjust the channel or color of the emitting laser. Recently, the use of wavelength division multiplexing (WDM) in mobile front-haul networks has attracted attention because of the advantages of wider bandwidth and reduced use of optical fiber. Our SFP+ tunable transceivers can operate on a wide range of wavelengths, and the specific wavelength.



Article Content

Tunable Optical Filters | Coherent

> Tunable Optical Filters Networking Tunable Optical Filters Prevent multichannel crosstalk with minimum attenuation of the signal using these 100 and 50 GHz

Design and Research of Wavelength Tunable Optical Receiver Module

Based on TWDM-PON technology, this paper analyzes various schemes of wavelength tunable optical receivers. Aiming at the existing problems, a wavelength tunable optical receiver

What's Inside a Tunable Laser for Coherent Systems?

The tunable laser is a core component of all these tunable communication systems, both direct detection and coherent. The laser generates the optical signal modulated and sent over the optical fiber. Thus,

Design and implementation of an optical module based on an

This article discusses the design and implementation of a 100 G tunable laser optical module, and briefly introduces the functions of each module in the MCU. The main technologies

SFP+ Tunable Transceivers

Our SFP+ tunable transceivers can operate on a wide range of wavelengths, and the specific wavelength can be adjusted or tuned based on the network requirements.

Tunable laser technology and Its application in optical fiber ...

In the field of optical communication, traditional light sources are based on fixed-wavelength laser modules. With the continuous development and application of optical

SFP+ Tunable Transceivers

SFP+ Tunable Transceivers GAOTek's SFP+ (Small Form-Factor Pluggable Enhanced) tunable transceivers are optical modules used in high-speed networking applications to transmit and receive

Smart Tunable Optics

Smart Tunable Optics are intelligent, plug-and-play, wavelength self-tuning transceivers that eliminate the need for time-consuming tasks, such as wavelength planning, manual fiber tracking, and

Optimizing Optical Networks with DWDM Tunable SFP+ Modules

FS's 10G Tunable DWDM SFP+ Modules offer flexible, high-performance optical solutions for data centers, MANs, and cloud networks, enhancing bandwidth and resource efficiency.

Lumentum introduces full-band tunable optical transceivers

Lumentum is demonstrating its full-band tunable optical transceiver modules for dense wavelength-division multiplexing (DWDM) applications, which meet the rapidly evolving demands of

Huawei Launches Industry's First 800G Tunable Ultra-High-Speed Optical ...

At the Huawei products and solutions launch in London, Peng Song, President of Huawei's Carrier BG Marketing and Solution Sales Dept, Launched the industry's first 800G tunable

Tunable SFP+ Optical Transceiver with Limiting Electrical Interface

The tunable SFP+ optical transceiver is a full duplex serial electric, serial optical device with both transmit and receive functions contained in a single module that provides a high-speed serial link at

What is a Tunable DWDM Optical Module? What is its function?

Tunable DWDM optical modules enable dynamic wavelength switching across 96 C-band channels via software commands. Unlike fixed-wavelength designs, they reduce spare part types by over

Optoplex Tunable Optical Filters

Optoplex Corporation is a leading supplier of cutting-edge photonic components, modules and subsystems for dynamic wavelength management and signal conditioning. The company designs,

Contact Us

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

Website: <https://activa.net.pl>

Email: sales@activa.net.pl

Phone: +48 662 748 193

Address: ul. Cybernetyki 7B, 02-677 Warsaw, Poland

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

