

Several Colors of Optical Modules



Summary of Content

Optical module colors, typically seen on pull-tabs, indicate the module's wavelength, fiber type, and transmission distance, enabling quick identification and error-free deployment.

Purpose of Color Coding

Optical modules, such as SFP, SFP+, QSFP, BiDi, and CWDM, use colored pull-tabs as a visual coding system. These colors help technicians quickly identify the module's wavelength, compatible fiber type, and transmission distance without unplugging it, streamlining maintenance and reducing errors in high-density network environments.

Common Color Codes by Module Type

1. Standard Single-Mode and Multi-Mode Modules

- Blue: 1310nm, medium-distance transmission
 - Purple: 1490nm, medium-distance transmission
 - Yellow: 1550nm, long-distance transmission (40 km+)
 - Green: 1550nm, extended reach (80 km+)
 - Black: 850nm, typically multi-mode short-distance transmission
- #### 2. BiDi (Bidirectional) Modules

Article Content

Optical Module Pull Tab Colors: The Ultimate Guide to SFP, QSFP,

Description: Decode optical module pull tab colors for SFP, QSFP+, BIDI, and CWDM modules. Learn how color

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Meaning of Optical Module Pull Tap Colors

Optical module pull tab colors serve as a visual language in network operations and maintenance. Their core value lies

Optical Module Guide: Demystifying Optical Modules

Optical modules are essential components in modern communication networks, enabling

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Gray Light & Colored Light

To distinguish wavelengths in different systems, the light in WDM systems is called colored light, whereas the light in common optical

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The Key External Components of Optical Modules

An optical module serves as the backbone of modern fiber-optic communication. Its appearance often resembles a

Understanding Optical Modules

Optical modules are the backbone of modern optical communication systems, enabling high-speed, reliable data transmission that

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Key Differences Between Single-Mode and Multimode Optical Modules

Compare single-mode and multimode optical modules by core size, distance, speed, and cost. Choose the right

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Understanding Optical Modules: Types and

Explore the essential principles and types of optical modules for fiber optic communication systems.

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The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right

Understanding SFP Optical Modules: Types, Selection, and Colour

This guide breaks down the common SFP optical modules, explains how to identify them by their pull-tab colors, and

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Understanding Single-mode and Multi-mode Optical Modules and Optical ...

Multi-mode Optical Module: · Paired with Multi-mode Fiber: Multi-mode optical modules are specifically designed to work with multi

Understanding Optical Modules: Types and Troubleshooting Guide

Explore the essential principles and types of optical modules for fiber optic communication systems.

Types and selection of commonly used SFP optical modules

Common optical modules have four wavelengths: 850nm, 1310nm, 1490nm, and 1550nm. The corresponding pull tab colors for

What Is an Optical Module

On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the

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Happy New Year, and welcome to the January 2026 update! We're excited to share that Agent Mode in Excel is now

Understanding Optical Modules: Working Principles, Structures, and ...

Explore the working principles, structures, and performance metrics of optical modules, essential components of

Comprehensive Guide to Optical Transceiver Classifications and

Introduction Optical modules are critical components in fiber optic communications, enabling the conversion between

Methods For Distinguishing Optical Module Types

Distinguish by the Color of Module Pull Tabs. For modules with distinctly different pull tab colors, you can preliminarily

Understanding Optical Modules: Types and Troubleshooting Guide

Optical modules come in various types, and their external structures are not exactly the same. However, their basic compositional

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Optical module

Different optical wavelengths, also referred to as lambdas, of light are multiplexed in some optical modules using wavelength-division

Grey Transceiver vs. Color Transceiver: Understanding the Differences

The choice between grey and color transceivers depends on several factors, including the specific requirements of

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