

Does China Unicom's 4GB BU optical module use a 1350nm



Overview

Multimode optical transceiver modules often use 850nm, leveraging cost-effective VCSEL (Vertical-Cavity Surface-Emitting Laser) sources.

Key Takeaways

China Unicom's 4GB BU optical modules do not typically use a 1350nm wavelength; standard single-mode modules operate at 1310nm or 1550nm.

Typical Wavelengths for Optical Modules

Optical transceiver modules generally operate at 850nm, 1310nm, or 1550nm depending on fiber type and transmission distance. Multi-mode fiber modules commonly use 850nm for short distances, while single-mode fiber modules use 1310nm for medium distances (up to 40km) and 1550nm for long distances (up to 120km or more) due to lower attenuation at longer wavelengths. There is no standard commercial use of 1350nm in typical SFP or BU modules.

China Unicom's Optical NetworkChina Unicom's core fiber network employs DWDM and SDH solutions with single-mode fibers for long-haul and metro networks. Their infrastructure uses standard wavelengths compatible with single-mode transmission, which aligns with 1310nm and 1550nm modules for distances ranging from several kilometers to tens of kilometers. The 4GB BU optical module, being part of this backbone, would follow these standard wavelength conventions rather than a non-standard 1350nm.

Conclusion

Based on standard optical communication practices and China Unicom's network architecture, the 4GB BU optical module is expected to operate at 1310nm for single-mode transmission, not 1350nm. The 1350nm wavelength is not commonly used in commercial optical modules, and no sources indicate its use in China Unicom's 4GB BU modules.

Article Content

Understanding Optical Transceiver Modules: A Comprehensive Guide

Multimode optical transceiver modules often use 850nm, leveraging cost-effective VCSEL (Vertical-Cavity Surface-Emitting Laser) sources. VCSELs are suited for short wavelengths,

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Essential 4G Network Fiber Optic Equipment Factory Price CWDM SFP 1.25g Optical Module LC Connector 1350nm 120km DDM Compatible

Things You Need to Know About Optical Modules and Wavelengths

Introduction Overview of Optical Modules Classification of Optical Modules Types and Uses of Optical Modules Differences Between Single-Mode and Multi-Mode Optical Modules Differences Between Bidi and Dual-Fiber Optical Modules Classification and Application of Colored Optical Modules How Should We Select Optical modules? Summary 1. Wavelengths Generally, multi-mode optical modules work at 850 nm wavelength, whereas single-mode optical modules work at 1310 nm or 1550 nm. Multi-mode optical modules are used for short-range (SR) transmission, whereas single-mode optical modules are used for long-range (LR), extended-range (ER), and ze-best-range (ZR) transmission. Multi-mode ... See more on linkedin Author: Ruijie Networks fibeye

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Single-mode modules use a 9/125 micrometer diameter fiber optic cable and can transmit light at wavelengths of 1310nm, 1550nm with WDM.

Wavelength and Transmission Distance of Optical Transceiver Modules

Based on the analysis of commonly used wavelengths in optical transceiver modules, it is easy to conclude that for general short-distance transmissions within 500m, 850nm wavelength is usually used.

Comprehensive Guide to Optical Transceiver Classifications and

They are widely used in data centers, telecommunications networks, and industrial communication systems. Understanding their classifications and types is essential for selecting the

How to Identify Optical Transceiver Wavelengths by Pull-Tab Color

Matching the correct wavelength with the right fiber type and application is essential to ensure: The most commonly used SFP optical modules operate at 850nm, 1310nm, 1490nm, and

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Single-Mode vs. Multimode Optical Transceivers: Three Major

The operating wavelength of multimode optical transceivers is 850 nm, and that of single-mode optical modules is 1550 nm or 1310 nm. Light-emitting diode (LED), Vertical-Cavity Surface

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Optical network technologies converge on broadband China

China Unicom's core fibre-optic network serves as the common platform for voice, cellular, paging, long-distance and data/Internet networks.

China Unicom 3G / 4G / 5G coverage

Discover detailed mobile internet coverage maps for all operators. Check 2G, 3G, 4G, 5G, and fiber availability in your area and worldwide.

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Price Single-mode modules are typically more expensive than multi-mode modules because they use more components and more expensive laser light sources. 3.How to Choose SFP Module between

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How does your company do regarding quality control? A: Every single optic module is individually tested in our test center, and also tested for compatibility on a variety of different network equipments.

Understanding Wavelengths in Fiber Optics

Wavelengths typically range from 800 nm to 1600 nm. You may see 633 nm and 780 nm from time to time, but by far the most common wavelengths actually used in fiber optics are 850 nm, 1300 nm, and ...

Optoray CWDM SFP+ 10G Essential Optical Transceiver Module

Key attributes Type Fiber Optic Transceivers Connector Type LC Use FTTX Model Number OTS-10G-CXX-40 (1270-1350) Brand Name optoray Place of Origin Anhui, China Warranty Time 1 year Data

A complete guide to China SIM Cards: All you need to

It's a virtual SIM card inside your phone, that you can connect to any operator offering eSIM services. Essentially, it lets you use a new SIM in your

Optical Transceivers Introduction

With the closer between single-mode and multimode SFP optical module in recent years, the use of single-mode fiber and single-mode module

China Unicom

China United Network Communications Group Co., Ltd., doing business as China Unicom, is a Chinese state-owned telecommunications operator. Originally founded in 1994 as a wireless paging and GSM

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