

What is an ODI optical module



Overview

ODI defines a standardized optical connector and optics, known as an optical port. ODI ports may be placed on any processor, storage device, or plug-in card. All data transfer and flow control occurs over the pluggable optical cable. In October of 2017 the AXIe Consortium, VITA trade association, and six companies endorsed a new optical interface standard named Optical Data Interface, or ODI for short. The six companies were Conduant Corporation, Guzik Technical Enterprises, Intel Corporation, Keysight Technologies, Samtec. An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical modules typically have an electrical interface on the side that connects to the inside of the system and an optical interface on the side that connects to the outside. As an essential component of optical fiber communication, optical modules are optoelectronic devices that facilitate the conversion between optical and electrical signals during the transmission process.

Article Content

What Is an Optical Module and Its FAQs (V300)

As an important part of fiber-optic communication, an optical module is a photoelectric converter which converts electrical signals into optical signals and vice versa. An optical module

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.

Optical Data Interconnect (ODI) Ecosystem Solutions

The new Optical Data Interface (ODI) is a new high-speed interface standard for advanced instrumentation and embedded systems. ODI enables

Over 20 Million 400G & 800G Datacom Optical Module

BOSTON (January 7, 2025) - Total shipments of leading-edge datacom optical modules are projected to tally over \$9 billion for 2024, according to the latest

AMD, NVIDIA, OpenAI & Others Form An Optical Scale-up Consortium

AMD, Broadcom, Meta, Microsoft, NVIDIA and OpenAI jointly announced today the formation of the Optical Compute Interconnect (OCI) Multi-Source Agreement (MSA) optical scale-up

Understanding Optical Modules: Types and

An optical module is mainly composed of optoelectronic devices (including the optical transmitter and optical receiver), functional circuitry, and optical interfaces. Its

Insta360 Go 3S Retro Bundle Brings an Optical Viewfinder to Action ...

Insta360 launches the Go 3S Retro Bundle, a retro-inspired action camera setup with an optical viewfinder, 4K video, and vintage-style shooting features.

Optical module design resources | TI

Design requirements Modern optical module designs often require: Reduced power consumption to control and limit module temperature rise. Dynamic and precise control of laser diodes to regulate

400G Optical Modules Explained: SR4 Vs. DR4 Vs. FR4

Key differences between SR4, DR4, FR4, and LR4 400G optical modules. Expert advice from Asterfusion engineers to optimize your data center

OFC 2026 - Scaling Up Optical Network Density

OFC 2026 was held a couple of weeks ago, and since then, I have had a chance to reflect on what was shown and what I saw from the perspective of an Optical Transport industry analyst. The simple

New optical interface standard aims at 5G

ODI is a new high-speed interface for instrumentation and embedded systems. It breaks speed and distance barriers by relying on optical

Optical module

Overview Electrical Interface Types Optical modulation and multiplexing types In-module components Electrical cable equivalent Front panel optical module MSAs On-Board Optical module MSAs Users of Optical Modules

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical modules typically have an electrical interface on the side that connects to the inside of the system and an optical interface on the side that connects to the outside world through a fiber optic cable. The form factor and electrical interface are often specified by an interested group using a multi-source agreement (MSA). Optical modules can either plug into a front pa

X2-SFP 10G X2 To SFP+ Converter X2 Optical Module 300m-80km

Product Description X2-SFP 10G X2-SFP+ Converter Features X2 to SFP Converter Support on many platforms using Xenpak interfaces Compatible with Xenpak MSA Hot Pluggable Distance from 300m

AI data centers hit interconnect limits, boosting optical module demand

The surge in optical module stocks reflects a deeper shift in AI infrastructure: the bottleneck is no longer computing power alone, but how that power is connected.

Chinese Funds Lift Investment in Optical Module Stocks Amid AI

Zhongji Innolight, a core investment target among the optical module concept stocks, has become the top stock heavily held by public funds, while Eoptolink Technology and Dongshan

Optical Module Supply Chain Financial Data Tracking · Issue 1, May

Optical Module Supply Chain Financial Data Tracking · Issue 1, May 2026 This week covers the disclosure window from late April to early May. Core signals indicate that leading

Understanding Optical Modules: Working Principles,

Explore the working principles, structures, and performance metrics of optical modules, essential components of optical fiber communication systems. Learn

GlobalFoundries Accelerates Adoption of Co-Packaged Optics for

GlobalFoundries today announced the introduction of its SCALE optical module solution for co-packaged optics (CPO). GF's SCALE solution, or Silicon photonics Co-packaged Advanced

1.25G 1310nm 40Km CWDM SFP Optical Transceiver Module Single

1.25G 1310nm 40Km CWDM SFP Optical Transceiver 1.25G Single Mode Product Description GEZHI compatible 1.25Gpbs CWDM SFP transceiver supports up to 40km, 80km, 120km or 160km link

Global AI Optical Transceiver Market to Reach US\$26 Billion in 2026 ...

TrendForce's latest research indicates that the global market for AI-focused optical transceivers has entered a phase of rapid growth, with market size projected to expand from

Huawei patent shows new optical module with improved

Huawei recently applied for an optical module and communication tech patent which aims to reduce the cost of manufacturing for effective camera

5W OLP Module Optical Line Protection System with 30ms Auto

5W OLP Module Optical Line Protection System 30ms Auto Switch with High Switching Speed Product Overview Gezhi Photonics's Optical Line Protection (OLP) system is an advanced optical line

What After-Sales Services Are Available For Optical Modules

In an increasingly competitive market, comprehensive after-sales service is an indispensable part of sales work. It aims to ensure customers receive timely and professional support

OFC 2026 Special: Arista Leads XPO Launch as Three

Discover the major industry shift at OFC 2026 as Arista Networks and global leaders unveil the XPO MSA, Open CPX, and OCI MSA to solve AI data

Understanding the New Optical Data Interface

The ODI standard is a new high-speed point-to-point interface for instrumentation and embedded systems. ODI breaks speed and distance barriers

2CH 4CH 8CH CWDM OADM Module Optical Add Drop Multiplexer

Optical Add-Drop Multiplexer 2CH 4CH 8CH CWDM OADM Designed for flexible FTTx network applications, this CWDM Optical Add/Drop Multiplexer enables efficient wavelength management in

200G Optical Module Market Report: Size, Growth,

200G Optical Module Market Size And Forecast 200G Optical Module Market size was valued at USD 2.5 Billion in 2023 and is projected to reach USD 5.1 Billion

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