

How many Cisco optical modules are there



Overview

Cisco Optics | Transform Your NetworkScale AI back-end and front-end networks with high-performance, reliable 400G to 1.6T pluggable optics powered by Cisc.

Key Takeaways

Cisco offers a wide range of optical modules, including SFP, SFP+, SFP28, QSFP+, QSFP28, QSFP-DD, OSFP, CWDM, and DWDM modules.

Cisco optical modules are pluggable transceivers used in switches, routers, and servers to transmit data over fiber optic cables. They vary by form factor, speed, and transmission distance, supporting network speeds from 1 Gbps to 400 Gbps . The main categories include:

- SFP (Small Form-Factor Pluggable): Supports 1 Gbps, suitable for short to medium distances .
- SFP+: Enhanced SFP for 10 Gbps networks .
- SFP28: Supports 25 Gbps, commonly used in modern data centers .
- QSFP+: Aggregates four 10 Gbps channels for 40 Gbps total .
- QSFP28: Supports 100 Gbps, widely used in high-performance networks .



- QSFP-DD / OSFP: High-density modules supporting 400 Gbps for advanced data center deployments .
- CWDM and DWDM modules: Coarse and dense wavelength division multiplexing modules for long-haul optical networks . Each module type can further vary by fiber type (single-mode or multimode), wavelength, and transmission distance, allowing Cisco to provide solutions for intra-rack, campus, and long-haul network applications . While the exact number of individual models is extensive and continuously updated, Cisco maintains a comprehensive list of transceiver models on their official datasheets . In summary, Cisco optical modules cover a broad spectrum of speeds and applications, from 1 Gbps SFPs to 400 Gbps QSFP-DD/OSFP modules, ensuring compatibility with a wide range of networking equipment and deployment scenarios.

Article Content

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

Cisco Compatible Optical Modules Catalog

HARDWARE FEATURES All modules in the Cisco Compatible Optical Modules Catalog are built with industry-leading laser

Cisco Compatible Optical Modules Catalog

The Cisco Compatible Optical Modules Catalog is structured to simplify procurement and inventory management. All modules are

Cisco Compatible Optical Transceivers Explained (2026 Guide)

Learn everything about Cisco compatible optical transceivers, including benefits, safety, and cost savings. Discover

Cisco Compatible SFP List 2026: Architect's Selection Guide

A Cisco compatible SFP list 2026 represents a validated inventory of optical transceivers that utilize Multi-Source

Understanding Cisco Transceiver Modules: A Comprehensive Guide

Explore our comprehensive guide on Cisco transceiver modules, including SFP and optical solutions. Learn about

View the Optical Module Status on a Switch through the

The Cisco Small Business Series Switches allow you to plug in a Small Form-factor Pluggable (SFP) transceiver in their optical

Cisco Optics-to-Device Compatibility Matrix

Comprehensive compatibility information for Cisco optical transceivers and network devices Disclaimer: Cisco makes the data in this

Cisco Transceiver Modules

Simplify the selection of pluggable optical transceivers Cisco provides the industry's most comprehensive set of

Cisco Compatible Optical Modules Catalog

The catalog is structured around a modular transceiver architecture, adhering to electrical compatibility with a wide range of Cisco

Cisco Compatible Optical Modules Catalog

EXECUTIVE SUMMARY This document serves as the definitive technical reference for the Cisco Compatible Optical Modules

Cisco 7600 Series Routers

This publication provides procedures for installing and connecting Optical Services Modules (OSMs) in Cisco 7600 series routers and

BRKOPT-2699

800G Optical Modules: QSFP-DD or OSFP 51.2T, 64 port, 800G in 2RU Stacked cages (two modules) Both above and below the

Overview of Cisco Network Modules and Service Modules for Cisco

The network module adapter is used to insert supported Cisco network modules in the service module slots in Cisco 2900 series and

Cisco Routed Optical Networking Solution Guide, Release 1.0

Routed Optical Networking Solution Components Cisco 8800 Series Routers The Cisco 8800 Series delivers density

Accelerate Your Business with Cisco Optics

These pluggable optics allow you to increase your network's capacity with maximum flexibility. You can select optical module data

Please read

400G Optical Modules: QSFP-DD or OSFP Initiated by Cisco, QSFP-DD was proven to address all the technical and market

Cisco ONS Family Optical Pluggable Modules

Summary Cisco offers a comprehensive range of pluggable optical modules for the Cisco ONS Family of multiservice platforms. The

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

