

Selection Guide for OSFP Air-Cooled Switches for Surveillance Use



Overview

In this article, you will find the complete 2026 cross-vendor reference for OSFP compatible switches, including specific models, OSFP variant requirements (IHS, RHS, XD, twin-port vs single-port), port density, breakout capabilities, and a practical selection . In this article, you will find the complete 2026 cross-vendor reference for OSFP compatible switches, including specific models, OSFP variant requirements (IHS, RHS, XD, twin-port vs single-port), port density, breakout capabilities, and a practical selection . In April 2026, a procurement engineer at a North American hyperscaler placed an order for 800 OSFP transceivers, only to discover three weeks later that the destination switches required the OSFP-RHS variant rather than the standard OSFP-IHS form she had ordered. Three weeks of project delay. TE Connectivity (TE) is expanding its high-speed connectivity portfolio with new optical transceivers, complementing our Active Optical Cables (AOCs) and copper solutions. Our transceivers (200G. This manual is relevant for the following models: SN6600-LD, SN6600, SN6810-LD and SN6800-LD. It describes the installation and basic use of NVIDIA Ethernet switches based on the NVIDIA Spectrum-6 ASIC. Its intended audience is IT managers and system administrators. Refer to Ordering Information. The rapid expansion of AI, machine learning, and HPC workloads is driving unprecedented demand for network bandwidth. OSFP has become a leading form factor for high-density. NVIDIA® LinkX® 400Gb/s Cable and Transceiver User Guides provides detailed information, figures, and ordering part numbers to assist in configuring cables and transceivers for use with network switches, BlueField® DPUs, and ConnectX® network adapters for both Ethernet and InfiniBand protocols. The parallel multimode, short reach 8-channel (2xSR4) uses 100G-PAM4 modulation and has a maximum.

Article Content

Apr 01, 2026

SFP vs SFP28 vs QSFP28 vs QSFP-DD/OSFP: 2026 Data Center

A 2026-ready, engineer-focused guide comparing SFP, SFP28, QSFP28, QSFP-DD and OSFP transceivers. Learn

May 07, 2026

Form Factors

Form factor refers to the physical dimensions and shape of a transceiver. Form factor includes aspects like the size,

Dec 22, 2025

Exploring the World of 400G OSFP Transceiver: Types, Connections,

The selection of 400G OSFP optical modules should take into account transmission distance, fiber type, power

Aug 11, 2025

OSFP Connector: Ultimate Guide to Amphenol and TE Connectivity ...

Discover the ultimate guide to Amphenol and TE Connectivity solutions for OSFP connectors and cage, cable

Nov 30, 2025

400G OSFP/QSFP-DD/QSFP112 Module Introduction and Selection Guide

400G OSFP Transceivers FS 400G OSFP modules feature two thermal design options, finned top and flat top, and

Oct 26, 2025

Juniper 800G Optical Transceivers and Cables Guide

It allows transceivers with OSFP form factor to handle higher power dissipation and provide better cooling solutions. Fiber type and

Jan 16, 2026

OSFP Test Adapter s

Introduction This user's guide documents the OSFP Host Compliance Board (HCB), and OSFP Module Compliance Board (MCB)

Jan 15, 2026

Introduction | NVIDIA Q32xx and Q34xx XDR 800Gb/s InfiniBand

For smaller-scale platforms or integration with existing infrastructures, the NVIDIA Quantum-X800 Q3200 2U air-cooled

Jan 11, 2026

OCP OAI S L COOLING OCP OAI S

Executive Summary This document is not a specification for OAI/OAM products. It is a set of guidelines on design,

Jul 11, 2026

800G Optical Modules Explained: Standards, Types & Use Cases

Discover everything about 800G optical modules—standards, packaging, types & applications. Learn how they power

Jan 04, 2026

Flow Switches Selection Guide: Types, Features, Applications

Flow switch cut-away. Image credit: Orange Research Flow switches are used to sense the flow of a fluid or air through a valve

Jul 11, 2026

Choosing the Right OSFP: Balancing Performance and Thermal

The DGX rack uses liquid cooling internally, while switches remain air-cooled—requiring a Finned-to-Flat configuration to bridge

Feb 10, 2026

OSFP Form Factor: Complete Guide to 400G/800G/1.6T

Complete OSFP form factor guide: dimensions, 8-lane architecture, thermal design, module types, and OSFP vs

Oct 26, 2025

OSFP CONNECTORS, CAGES & CABLE ASSEMBLIES

By utilizing integrated thermal heatsink technology in the plug, OSFP products provide superior thermal performance and the signal

Sep 03, 2025

LinkX User Guide for 400Gbps 100G-PAM4 OSFP & QSFP112-based

NVIDIA® LinkX® 400Gb/s Cable and Transceiver User Guides provides detailed information, figures, and ordering part numbers to

Jan 18, 2026

TE CONNECTIVITY OPTICS SOLUTION GUIDE

* OSFP-RHS (Riding Heat Sink), optimized for liquid-cooled switches, and OSFP-IHS (Integrated Heat Sink), designed for traditional

Aug 29, 2025

OSFP MSA Rev 5

An OSFP/OSFP800 or OSFP1600 module (see section 3, section 4 and section 11) includes an air-cooled integrated heatsink (IHS)

Jul 04, 2026

OSFP-IHS vs. OSFP-RHS: Choosing the Right Thermal Solution for

Compare OSFP-IHS and OSFP-RHS thermal designs for 800G and 1.6T optical modules. Learn how to choose the right OSFP

May 15, 2026

Inquiry about OSFP air-cooled switches

A Comprehensive Guide of the Thermal Design in OSFP Modules OSFP MSA Rev 5 OSFP Thermal Form Factors Explained:

Oct 22, 2025

A Comprehensive Guide of the Thermal Design in OSFP Modules

Finned-top (OSFP-IHS, Open-top): This design leverages airflow convection for thermal management by maximizing

Sep 05, 2025

From Airflow to Liquid Cooling: A Deep Dive into 800G OSFP Packaging

The OSFP (Octal Small Form Factor Pluggable) has become one of the most widely adopted pluggable form factors

Nov 21, 2025

800G OSFP Transceiver: Performance Analysis for AI Data Centers

Port Density and Switch Capacity Selection Guidelines Power Consumption and Thermal Management Real-World

Dec 28, 2025

Comparison of the 800G DR4 OSFP224 Transceiver and 800G 2xDR4 OSFP ...

Key Specifications and Design The defining physical characteristic of this module is its Twin-port OSFP (Finned top)

May 26, 2026

Complete Guide to OSFP Transceiver: 400G/800G/1.6T

Master OSFP transceiver technology with our comprehensive guide. Covers 400G/800G/1.6T speeds, OSFP vs

Nov 22, 2025

NVIDIA Spectrum-6 SN6000 Ethernet Switch Systems Hardware User

The SN6600 system is AC-powered and air-cooled, with Connector-to-Power (port side intake) Ethernet switch, featuring 64 IHS

Nov 29, 2025

MMA4Z00-NS 800Gb/s Twin-port OSFP, 2x400Gb/s Multimode

The Quantum-2 and Spectrum-4 switches require finned-top OSFP shells for extra transceiver cooling. The main application for

Mar 25, 2026

400G OSFP/QSFP-DD/QSFP112 Module Introduction and Selection Guide

This article explores the technical characteristics, product lineup, and use cases of 400G OSFP/QSFP-DD/QSFP112

Dec 31, 2025

OSFP Thermal Form Factors Explained: Finned Top, Closed Top

Finned Top OSFP-IHS works well in traditional air-cooled switches with strong, uniform airflow. Closed Top OSFP

Jul 10, 2026

OSFP Thermal Solutions | Cofan Thermal

Designed specifically for OSFP (Octal Small Form-Factor Pluggable) applications, these modules leverage advanced aluminum heat

Nov 24, 2025

OSFP vs. QSFP-DD: Selection Guide for 400G/800G Networks

As networks scale to 400G and 800G for AI workloads, the debate between OSFP and QSFP-DD is no longer just about form

Sep 21, 2025

800G Multimode Optical Module Selection: QSFP-DD vs OSFP, SR8

A comprehensive guide to 800G multimode optical module selection: compare QSFP-DD and OSFP form factors,

Sep 03, 2025

OSFP Connector Guide: 400G and 800G Modules, DAC, AOC, ACC,

OSFP Connector Explained: Features and Benefits for 400G 800G Networks OSFP (Octal Small Form-factor

Apr 23, 2026

ConnectX-8 SuperNIC: Should You Use OSFP IHS or OSFP RHS

IHS modules integrate their own heatsink and are ideal for traditional air-cooled switches and general-purpose

Contact Us

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