

QSFP optical module standard SFF8636



Overview

SFF-8636 defines a common management interface for 4-lane pluggable transceiver modules and direct-attach cables, covering products such as QSFP, QSFP28, and QSFP-DD. It enables seamless communication between the host system and the optical module via I²C-based memory mapping and. This specification is made available for public review at <https://www.sfftrade.org>. Comments may be submitted at <https://www.sfftrade.org>. Physical layer and mechanical details of the connector interface are outside the scope of this document. SFF-8024 SFF. The TQ2032-TUNC-SO is a pluggable QSFP28 DWDM transceiver designed for high capacity 100 Gigabit Ethernet (100GbE) Data Center Interconnect (DCI) optical communication applications up to 120km unamplified or 300km amplified links. The TQ2032 has an on-board dispersion compensation that can handle.



Article Content

Mar 20, 2026

How to Read SFP & QSFP EEPROM Data — Practical Guide

Practical, step-by-step guide to reading and interpreting SFP/QSFP EEPROM and DDM data (A0/A2), with commands, standards notes, and troubleshooting.

Nov 20, 2025

Walsun 100G QSFP28 Full Range BIDI Solution

QSFP-100G-ZR4 optical transceiver module is designed with duplex LC connectors, reaching a link up to 80km over single-mode fiber (OS2). Walsun

Sep 08, 2025

SFF-8636: The Management Interface Behind

The SFF-8636 standard, developed by the Small Form Factor (SFF) Committee, defines the management interface and electrical behavior for QSFP

Jul 17, 2025

SFF-8636 Datasheet (PDF)

Finisar Corporation is a company that designs, develops, manufactures, and markets optical communication products. It was founded in 1988 and is headquartered in

Dec 12, 2025

200G QSFP-DD to 2×100G QSFP28 Active Optical Breakout Cable

200G QSFP-DD to 2×100G QSFP28 Active Optical Breakout Cable - 1 meter High-quality optical transceiver from EDGE Optical Solutions.

May 13, 2026

QSFP28 100G CWDM1310nm 40km Single Lambda SMF Duplex LC Optical Module ...

QSFP28 100G CWDM 1310nm 40km Single Lambda SMF Duplex LC Optical Module Compatible with Cisco Mikrotik HPE TP-LINK HP Juniper DDM Features Tested in Targeted Switches for Superior

Aug 08, 2025

QSFP28 100G DCO ZR

QSFP28 100G DCO ZR - SFF-8636 Version 100G Ethernet DCO Transceiver
DESCRIPTION The QSFP28 100G Digital Coherent Optical (DCO) ZR transceiver is a 100 Gbit/s pluggable module for

May 03, 2026

How does the latest optical module management standard work?

The memory map of QSFP28 modules complies with the SFF-8636 standard. It contains only four memory pages, which is enough to handle all the functionalities of the QSFP28 modules.

Jun 28, 2025

SFF-8024 SFF Module Management Reference Code Tables

Changed name from "SFF Cross Reference to Industry Products" to "SFF Module Management Reference Code Tables" Deleted Tables 3-1, 3-2 (See REF-TA-1011)
Added new Module Media code

Aug 28, 2025

SFF-8636 Management Interface for 4-lane Modules and Cables

ABSTRACT: This specification defines a common management interface for 4-lane pluggable transceiver modules and cable assemblies. Physical layer and mechanical details of the connector

Jan 05, 2026

Understanding the SFF-8636 Standard: The Universal Management

SFF-8636 defines a common management interface for 4-lane pluggable transceiver modules and direct-attach cables, covering products such as QSFP, QSFP28, and QSFP-DD. It

Jan 28, 2026

Fiber Optic Connectors | Products | Amphenol

Amphenol provides a series of 40G QSFP+ optical module products, including SR4, eSR4, IR4, LR4, ER4 lite, AOC and AOC breakout series. This series of products

May 21, 2026

Dell networking transceivers and cables

The adapter supports standard SFP and SFP+ optics in a QSFP+ socket providing backwards compatibility, while the 40GbE port for future bandwidth expansion. Dell networking transceivers and

Nov 29, 2025

Reading QSFP module information · GitHub

SFF-8636 Management Interface for 4-lane Modules and Cables : This specification defines a common management interface for 4-lane pluggable

Jan 10, 2026

NSComm100G Optical Transceiver Modules: A Practical Guide

This guide breaks down QSFP28 modules - SR4, LR4, and DR, with advice on reach, fiber types, connectors, power, DOM, interoperability, and lifecycle management.

Aug 29, 2025

400G QSFP-DD ZR+ Coherent Modules | GIGALIGHT

The QSFP-DD coherent optical module has six designated pins on the 76-pin connector for its own power feed. The host board supplies a stable power to the module which in turn limits the inrush

Oct 10, 2025

100GBASE QSFP-100G Modules Data Sheet

QSFP-100G Optical modules Features and benefits of Cisco QSFP modules Hot-swappable input/output device that plugs into a 100G Gigabit

Jul 05, 2025

Optical Transceivers | Fiber Optic Transceivers | Form

Optical Transceivers From 10G to 1.6T, Amphenol's optical transceivers deliver scalable, high-performance solutions across all major form

Jan 20, 2026

Huawei OSN010N24 Compatible 100GBASE-LR4

The Huawei OSN010N24 compatible optical transceiver module with duplex LC connectors reaches a link up to 10km over OS2 single-mode fiber (SMF).

Dec 19, 2025

SFF-8636: Management Interface for Cabled Environments

Abstract: This specification defines a common management interface for 4-lane pluggable transceiver modules, direct attach modules and shielded cable assemblies.

Jan 20, 2026

Walsun 100G QSFP28 Full Range BIDI Solution

Generic QSFP-100G-ZR4 100GBASE-ZR4 QSFP28 Optical Transceiver Module (SMF, 1310nm, 80km, LC, DDM) QSFP-100G-ZR4 optical

Nov 04, 2025

SFP Optical Transceivers: How Pluggable Optics Are Reshaping

Compared to older GBIC (Gigabit Interface Converter) modules that preceded them, SFP transceivers occupy roughly half the physical space while delivering equal or superior performance.

Jan 31, 2026

Top Optical Modules for POTN Deployment: SFP, QSFP, and OSFP

This in-depth guide explores the three major optical module standards—SFP, QSFP, and OSFP—highlighting their architecture, performance characteristics, and practical deployment roles in

Jun 09, 2026

All About QSFP Cables, Connectors, and More

QSFP interconnects include direct attach copper (DAC), active optical cables (AOC), optical modules, and active copper cables (ACC). DACs are the

Dec 28, 2025

SFF-8636 Common Management Interface

Most of the specifications developed by the SFF Committee have either been incorporated into standards or adopted as standards by EIA (Electronic Industries Association), ANSI (American

Nov 14, 2025

QSFP28 100G 850nm 1310nm 100m 10km 40km 80km 100km SR4

QSFP28 100G 850nm 1310nm 100m 10km 40km 80km 100km SR4 LR4 ER4 ZR4 MPO LC Optical Transceiver SFP Module Compatible QSFP28 100G No reviews yet Shenzhen Pacific Technology

Aug 19, 2025

QSFP28 100G COHERENT DWDM SFF-8636 HIGH TX POWER

The TQ2032-TUNC-SO is a pluggable QSFP28 DWDM transceiver designed for high capacity 100 Gigabit Ethernet (100GbE) Data Center Interconnect (DCI) optical communication applications up to

Apr 02, 2026

Active Optical Cables (AOC) | High-Speed Connectors

Active Optical Cables (AOC) Explore Amphenol's high-speed Active Optical Cables designed for data centers, HPC, telecom, and storage systems

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