

US Active Optical Components OSFP



Overview

OSFP Active Optical Cables (AOCs) are high-speed interconnects for data centers, supporting up to 800 Gbps. Using the OSFP form factor, they offer low power, high signal integrity, and longer reach than copper, making them ideal for AI, HPC, and cloud networking. 6T, enabling data center architectures to scale with evolving bandwidth and performance requirements. Designed to support 28G NRZ, 56G PAM4, 112G PAM4, and 224G PAM4. The OSFP MSA is proud to introduce OSFP1600 and OSFP-XD to the industry. This whitepaper highlights the key aspects and features of each solution with the expectation that both solutions will have a place in future data center applications. It uses 8 lanes at 50G PAM4 (400G) or 100G PAM4 (800G) with a 60-pin edge connector. TE Connectivity's OSFP series supports up to 36 ports in 1RU switches while delivering superior. FS Product Customis a customized service provided by FS to meet customers' hardware and software development needs, including product compatibility and software feature development for PicOS®, AmpCon, and transceivers. Add to Cart Product Highlights Max.



Article Content

May 02, 2026

Optical Component Startup Tracker

The number of venture-backed optical component startups has exploded - the Optical Component Start-Up Tracker identifies these companies

Nov 20, 2025

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

Below sub-sections illustrate block diagrams for a sampling of optical physical medium dependent sublayers (PMDs) that can be realized in an OSFP form factor. These block diagrams are meant to

Apr 08, 2026

OSFP-XD Copper Cable Assemblies | High Speed Input

Our advanced OSFP-XD cable assemblies are designed to meet the rigorous demands of both PCIe[®] Gen 5 and Ethernet protocols, providing a

Dec 31, 2025

OSFP Active Optical Cables (AOC)

OSFP Active Optical Cables (AOCs) are high-speed interconnects for data centers, supporting up to 800 Gbps. Using the OSFP form factor, they offer low power, high signal integrity, and longer reach than

Aug 29, 2025

The Definitive Guide to 800G OSFP/QSFP-DD AOC Cables for

The 800G OSFP/QSFP-DD AOC Cable is an integrated optical transceiver assembly designed for ultra-high-speed short-reach communication. Unlike traditional passive copper cables

Dec 27, 2025

800G OSFP to 2x 400G QSFP112 Breakout DAC, 2m | Vitex

The D8C-P2Q002C-HA is a 2m 800G OSFP to 2x 400G QSFP112 passive breakout Direct Attach Copper cable. It lets one 800G OSFP switch port serve two 400G NICs in the same rack via an

Feb 24, 2026

OSFP Connector Guide: 400G and 800G Modules,

The multi-fiber optic transceiver, called the OSFP connector, was made for data-heavy areas with high bandwidth requirements. It usually has eight

Feb 13, 2026

SFP, QSFP, QSFP-DD, OSFP Active Optical Cable Assemblies

Our active optical cable assembly portfolio provides improved cable flexibility and longer reach as compared to both traditional passive copper and emerging active copper (ACC/AEC) solutions,

Jan 06, 2026

What is Passive Optical Network (PON)?

What is PON (Passive Optical Network)? PON stands for Passive Optical Network, a fiber-optic communication system designed for high-speed

Jan 06, 2026

800G OSFP to OSFP Passive DAC, 2m | Vitex - Vitex LLC

The D8C-P1P002C-AA is a 2m 800G OSFP-to-OSFP passive Direct Attach Copper (DAC) cable for short-reach AI and cloud data center connections inside or between adjacent racks. Both ends use

Nov 29, 2025

800G OSFP DR8 IHS Finned-top 500m SMF Transceiver | Vitex

Vitex 800G OSFP DR8, twin-port IHS finned-top, 500m SMF, dual MPO-12 APC. Validated on NVIDIA SN5600, SN6000, Quantum-2, Quantum-X800. 2x 400G-DR4 breakout. 4-7 week lead time.

Jun 12, 2026

Global Leader in Materials, Networking, and Lasers

Markets Datacenter and Communications Datacenter Enable ultra-high-speed data transmission and optimized power efficiency for hyperscale and enterprise

Nov 14, 2025

OSFP1600_and_OSFP-XD

The OSFP MSA roadmap provides an excellent mechanical and electrical solution for 800G, 1.6T, and 3.2T pluggable optics with best-in-class thermal performance and support for break-out applications,

Mar 22, 2026

Linear pluggable optics for data centers

Half-Retimed Linear Optics creates an easier composite channel, allowing greater margin and robustness Shorter electrical Establishing compliant interfaces allows multiple vendors to

Dec 09, 2025

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

Sep 07, 2025

Active alignment

The Fraunhofer IPT develops function-oriented, active alignment processes for the alignment of individual components during the assembly of optical systems.

Dec 09, 2025

SFP+, XFP, QSFP+, DAC Twinax Cable 10Gtek Transceivers Co., Ltd

DAC Twinax Cable Maker. CE, FCC, RoHS, ISO9001 Certified. Professional Manufacturer focusing on SFP+ Cables, QSFP+ Cables, MiniSAS Cables, QSFP Cables, XFP Cables, CX4 Infiniband Cables

May 29, 2026

400G OSFP-RHS Flat-top VR4 50m OM4 NVIDIA Transceiver | Vitex

Vitex 400G VR4 OSFP-RHS flat-top transceiver, 50m OM4, MPO-12 APC. For NVIDIA Quantum-2 / Quantum-X800 InfiniBand and DGX H100 Cedar7 systems. MSA compliant.

Jan 10, 2026

OSFP Connector Guide: 400G and 800G Modules,

OSFP AOC Cables: Active Optical Cables for Medium-Reach Data Center Applications OSFP AOC uses multimode fiber for 30-100m reach at

Nov 15, 2025

\$LITE \$COHR \$CIEN \$AAOI EXECUTIVE OVERVIEW Across the

LightCounting's January 2026 note framed Arista and Google as not planning CPO at that point, but by March 2026 Arista had launched the XPO MSA, a dense liquid-cooled pluggable architecture for AI

May 04, 2026

Global Supply Chain Alliances Take Shape as Micro LED CPO Optical ...

Global supply chain players are expanding into optical communications and optical interconnects. Microsoft has introduced the MOSAIC Micro LED CPO architecture, while MediaTek

Jun 04, 2026

\$LITE EXECUTIVE OVERVIEW The OFC 2026 briefing material

The slide deck contrasts EML-based 1.6T and 3.2T optics with SiPho-based alternatives, arguing that EML offers simpler yield formation at 1.6T and a more direct extension path to 3.2T

Nov 01, 2025

15m (49ft) Generic Compatible 800G OSFP Finned Top Active Optical

This cable is a 2x 400Gb/s twin-port OSFP (Octal Small Form-factor Pluggable) to 2x 400Gb/s twin-port OSFP active optical cable (AOC). It integrates eight high-speed electrical pairs, each supporting up

Dec 23, 2025

Active Optical Cable Assemblies

TE's Active Optical Cable Assemblies support high-performance computing, data center, and networking interconnect applications. These cable assemblies feature a comprehensive range of

Mar 03, 2026

Active Electrical Cable (AEC) OSFP to OSFP Straight Cable with

AECs bridge the gap between the place where retreating DACs end and where active optical cables (AOC) and optical modules begin. Re-timers in the cable assemblies reset loss and timing planes,

Nov 30, 2025

AI Datacenter Optics Market Size and Forecasts 2032

AI datacenter optics encompass optical transceivers, active optical cables, optical engines, co-packaged optics modules, and silicon photonics interconnect solutions deployed within

Apr 01, 2026

OSFP Connectors & Cable Assemblies

Combined with strong electrical performance and broad system compatibility, TE OSFP connectors and cable assemblies deliver a balanced solution for today's

Contact Us

For more information, pricing, or custom solutions, please contact us:

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