Rwanda Active Optical Module OSFP

Overview

The product supports 800Gbps transmission speeds in an industry-standard, pluggable OSFP form factor with 5nm DSP and can be widely used in metro carrier, access and Cloud/DCI applications. The Cisco ® OSFP 800G transceiver modules provide 800 Gigabit Ethernet (GE), 2x 400GE, 4x 200GE, and 8x 100GE connectivity options, complying with the Octal Small Form Factor Pluggable (OSFP) MSA for pluggable transceivers. The modules comply with the OSFP MSA configuration with integrated closed. Each AOC has 8 duplex channels with 850Gbit/s aggregate bandwidth. Each channel operates with PAM4 modulati on scheme at 53. 125G baud rate, and up to 60m using OM3 fiber or 100m using OM4 fiber. The host can select Applications by programming the AppSel value in Staged Set 0. It uses 8 lanes at 50G PAM4 (400G) or 100G PAM4 (800G) with a 60-pin edge connector. Designed to support 28G NRZ, 56G PAM4, 112G PAM4, and 224G PAM4. This specification defines the electrical connectors, electrical signals and power supplies, mechanical and thermal requirements of the OSFP Module, connector and cage systems. The OSFP Management interface is described in a separate document, Common Management Interface Specification for 8/16X. InnoLight

800G ZR OSFP product family is designed based on dual polarization quadrature amplitude modulation (DP-16QAM), supporting extended C-band, polarization diversity coherent detection and advanced electronic link equalization.

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	OSFP-800G-AOC01 are designed to meet FCC Class B limits.
	November 23, 2025 Rev 1.11 :: Specification for OSFP-XD Octal Small Form Factor eXtra Dense Pluggable Module September 12, 2024 Rev. 1.1 :: Specification for OSFP-XD, Octal Small Form ...
	The OSFP module shall operate within one or more of the case temperature ranges defined in Table 8-1. The temperature ranges are applicable between 60m below sea level and 1800m above sea level.
	By utilizing integrated thermal heatsink technology in the plug, OSFP products provide superior thermal performance and the signal integrity needed to support 400G data rates.
	It is compliant with IEEE 802.3 800GBASE-VR8 and OSFP MSA module requirements with integrated heat sink. Optical signals are carried over eight pairs of parallel lanes, with one ...

OSFP modules are slightly larger than QSFP-DD modules, but this size increase allows for better heat dissipation and higher power envelopes (up to ~16 W), making them ideal for next ...

An in-depth comparison of OSFP and OSFP-XD packaging for 1.6T optical modules, explaining differences in channels, bandwidth scalability, thermal ...

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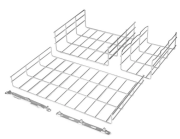
OSFP optical modules include 400G SR8/DR8 and 800G DR8 /FR8 variants. They deliver low latency, high bandwidth, and built-in FEC for error-free transmission up to 10km.



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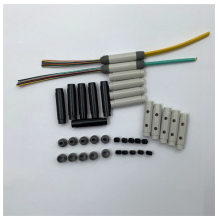
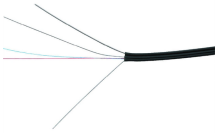
	The OSFP-800G-2xDR4 optical transceiver module, with its high bandwidth, high density, low power consumption, and long-distance transmission capabilities, plays a critical role in ...
	The OSFP-800G-2xDR4 optical transceiver module, with its high bandwidth, high density, low power consumption, and long-distance transmission ...

Contact Us

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