



Optics connecting A.I.™



1.6T OSFP DR8 LPO

High Bandwidth Linear Transceivers

Leveraging advanced SiPh modulator technology, these transceivers deliver 200G per lane, integrating seamlessly with drivers and TIAs to enhance module performance.

Optimized TDECQ Performance

Exceeds IEEE specifications with substantial margin, ensuring robust signal integrity even under significant system loss. This high TDECQ performance is critical for maintaining excellent signal quality throughout system transitions.

Case Temperature Range: 0° C - 70° C

Engineered for reliability across diverse environments, providing stable performance under demanding conditions, thereby ensuring extended module lifespan and operational flexibility.

Lower Power Consumption

Designed to minimize power consumption, these transceivers lower operational costs and support environmentally sustainable network solutions.



800G OSFP DR8 LPO

Advanced Bandwidth and Linearity

Engineered with a high-bandwidth, linear SiPh modulator, this transceiver integrates seamlessly with drivers and TIAs, ensuring exceptional module performance in demanding data center environments.

Excellent Sensitivity and BER floor

Achieves outstanding sensitivity and BER floor performance, demonstrating high compatibility and interoperability. This ensures reliable and high-performance operation within data center applications.

Elevated TDECQ Performance

Delivers consistent TDECQ performance even under high system loss conditions, surpassing IEEE specifications (<3.4dB) with ample margin. This ensures superior signal quality and integrity throughout system transitions.

Case Temperature Range: 0° C - 70° C

Designed for reliability across a wide temperature range, these transceivers provide stable operation in diverse environments, ensuring longevity and versatility.

Lower Power Consumption

Optimized for low power consumption, this transceiver reduces operational costs and supports sustainable, environmentally friendly network solutions.



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ELSFP 1311nm Uncooled UHP

Optical power class UHP: 23dBm/lane

Delivers robust signal strength with minimal attenuation over extended distances, minimizing the need for repeaters and enhancing the efficiency and reliability of data transmission networks.

Wavelength: 1311nm

Optimized for critical applications, including Metropolitan Area Networks (MANs) and data center interconnects, this wavelength supports flexible and robust network configurations, ensuring high performance and adaptability.

8 Optical Lane Output

Facilitates increased data throughput, making it ideal for high-demand networks. This capability enhances network efficiency, reduces congestion, and supports the growing demands of modern data centers.

Case Temperature Range: 15° C - 70° C

Engineered to maintain stable performance across a broad temperature range, this transceiver ensures durability and reliability in diverse operational environments, extending the longevity of network infrastructure.

Compatibility with CPO/NPO Modules

Seamlessly integrates with existing network architectures, simplifying upgrades and ensuring scalability. This compatibility enables future-proofing of networks, allowing for smooth adaptation to emerging technologies without significant overhead costs.



About AOI

AOI is an optical leader with manufacturing facilities worldwide, housing 80+ fully automated units for optical component and transceiver production. This high level of integration ensures rapid delivery and consistent quality. We innovate, design, and manufacture cutting-edge optical solutions for data centers, 5G, and FTTH networks, including modules like 40G, 100G, 200G, 400G, 800G & 1.6T. These solutions address diverse network demands, from AOC to SR, DR, FR, LR, and ER. AOI is also at the forefront of introducing LPO, RTL, CPO, and tunable systems, keeping networks future-ready.



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