

AICOVEX

LINKING INTELLIGENCE. POWERING FUTURES.

1.6T OSFP DR8

Optical Transceiver

High-performance 1.6Tbps optical transceiver designed for AI clusters, data centers, and next-generation Ethernet networks.

1.6T

AGGREGATE
BANDWIDTH



1.6 Tbps
Aggregate
Bandwidth



8x212.5G PAM4
8 Lanes
PAM4 Modulation



OSFP / OSFP-XD
Hot Pluggable
Form Factor



MPO-12 / MPO-16
Dual MPO-12 or
MPO-16 Connector



Up to 500m
Over SMF
(1310nm)



Reliable & Efficient
Low Power
High Performance

FEATURES

- Hot-pluggable OSFP form factor
- Silicon photonics integrated solution
- Data Rate 212.5 Gb/s PAM4 per lane
- 8x212.5Gbps PAM4 transmitter and PAM4 receiver
- Maximum link length of 500m on single mode fiber
- Digital diagnostics functions are available via the I²C interface
- Single 3.3V Power Supply and Power Dissipation < 26W
- Dual MPO-12 APC receptacles or MPO-16 APC receptacles
- Operating Case Temperature: 15°C ~ +70°C
- RoHS compliant



APPLICATIONS

- 1.6T Ethernet
- 2x800G Ethernet

PRODUCT DESCRIPTION

1.6T OSFP DR8 Optical Transceiver is a 8-Channel, Pluggable, Fiber-Optic OSFP for 1.6Tbps Ethernet Applications. It is a high performance module for data communication and interconnect applications which operate at 212.5Gbps per lane up to 500m on single mode fiber.

This module is designed to operate over single mode fiber systems using a nominal wavelength of 1310nm. The electrical interface uses a 60 contact edge type connector.

ORDERING INFORMATION

Product Name	Data Rate (Per Lane)	Wavelength (nm)	Max. Reach	Fiber Type	Connector	DDM	Operating Temperature
AICOVEX-OSFP-DR8-16T	212.5 Gb/s PAM4	1310	500m	SMF	Dual MPO-12 APC or MPO-16 APC	Yes	15°C ~ +70°C

AICOVEX reserves the right to change product specifications without notice.