

The Hyper Photonix HSO7-800-LP-P8S transceiver is designed for 800G Ethernet communication application links over 500m of single-mode fiber (SMF), and it is compliant with OSFP MSA, LPO MSA, CMIS 5.1, IEEE 802.3ck, and 802.3df standards. The HSO7-800-LP-P8S uses LPO solution. It is a high-performance, low-power, low-latency and cost-effective module. The module contains 8 parallel channels on the transmitter and receiver, each operating at 106.25Gbps. The optical signal is transmitted over eight parallel channels at a central wavelength of 1310nm. The optical interface is MTP/MPO-16 APC connector.

Features

- OSFP MSA 5.0 and CMIS 5.1 compliant
- LPO MSA V1.0
- MPO-16/APC optical connectors
- 8x106.25Gbps (53.125GBd PAM4) electrical interface
- 8x106.25Gbps (53.125GBd PAM4) optical interface
- Up to 500m over SMF
- Power dissipation $\leq 9W$
- Operating case temperature: 0°C to 70°C
- IEEE802.3ck and IEEE 802.3df compliant
- Built-in digital diagnostic functions
- 3.3V power supply voltage
- RoHS compliant



Applications

- 800G Ethernet
- Datacenter networks
- InfiniBand NDR

Specifications

Part Number	HSO7-800-LP-P8S
Data Rate	800Gbps
Supply Voltage	3.3V
Power Consumption	$\leq 9W$
Wavelength	1310nm
Optical Connector	MPO-16/APC
Transmitter	<i>Hyper Silicon™ Photonics</i>
Case Temperature	0°C to 70°C
Reach	500m over SMF