

The Hyper Photonix HSO9-800-DF-P8S transceiver is designed for 800G Ethernet and InfiniBand communication application links over 2km of single-mode fiber (SMF), and it is compliant with OSFP MSA, 800G Pluggable MSA, CMIS 5.1, IEEE802.3ck and IEEE 802.3df standards. The optical signal is transmitted over eight parallel channels at a central wavelength of 1310nm. The module contains 8 parallel channels on the transmitter and receiver, each operating at 106.25Gbps. It is suitable for 800G Ethernet, Data Center, InfiniBand, Breakout 2x400G DR4 or 8x100G DR1 Application. The optical interface is MPO-16/APC connector.

### Features

- OSFP MSA 5.0 and CMIS 5.1 compliant
- Single MPO-16/APC optical connectors
- 8x106.25Gbps (53.125GBd PAM4) electrical interface
- 8x106.25Gbps (53.125GBd PAM4) optical interface
- Up to 2km over SMF
- Power dissipation  $\leq 16.5W$
- 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
- Data center networks
- InfiniBand NDR

### Specifications

Part Number	HSO9-800-DF-P8S
Data Rate	800Gbps
Supply Voltage	3.3V
Power Consumption	$\leq 16.5W$
Wavelength	1310nm
Optical Connector	MPO-16/APC
Transmitter	<b><i>Hyper Silicon™ Photonics</i></b>
Case Temperature	0°C to 70°C
Reach	2km over SMF