

The Hyper Photonix HSOE-800-DR-C2S9 transceiver is designed for 800G Ethernet and InfiniBand communication application links over 500m of single-mode fiber (SMF), and it is compliant with OSFP MSA, CMIS 5.3, IEEE802.3dj standards. The optical signal is transmitted over four parallel channels at a central wavelength of 1310nm. The module contains 4 parallel channels on the transmitter and receiver, each operating at 212.5Gbps. The optical interface is single MPO-12/APC connector.

### Features

- OSFP MSA 5.22 and CMIS 5.3 compliant
- Single MPO-12/APC optical connector
- 4x212.5Gbps (106.25GBd PAM4) electrical interface
- 4x212.5Gbps (106.25GBd PAM4) optical interface
- Up to 500m over SMF
- Power dissipation  $\leq 16W$
- Operating case temperature: 0°C to 70°C
- Compliant with IEEE802.3dj :  
800GBASE-DR4 and 800GAUI-4 C2M
- Built-in digital diagnostic functions
- 3.3V power supply voltage
- RoHS compliant



### Applications

- 800G Ethernet
- Data center networks
- InfiniBand XDR

### Specifications

Part Number	HSOE-800-DR-C2S9
Data Rate	800Gb/s
Supply Voltage	3.3V
Power Consumption	$\leq 16W$
Wavelength	1310nm
Optical Connector	MPO-12/APC
Transmitter	<b><i>Hyper Silicon™ Photonics</i></b>
Case Temperature	0°C to 70°C
Reach	500m