

The Hyper Photonix 800GBASE-DR8 OSFP optical transceiver is built on our patented *Hyper Silicon™* photonics platform and designed for 800Gbps data links up to 500m over SMF. It is compliant with OSFP MSA, 800G Pluggable MSA, CMIS 5.1, IEEE802.3ck, and IEEE 802.3df standards. The module has 8 parallel transmitter and receiver lanes operating at 1310nm and 106.25Gbps per lane. It is suitable for 800G Ethernet and InfiniBand ecosystems in 2x400G breakout and 8x100G applications.

### Features

- OSFP MSA 5.0 and CMIS 5.1 compliant
- Dual MPO-12/APC optical connectors
- 8 x 106.25Gbps (53.125GBd PAM4) host interface
- 8 x 106.25Gbps (53.125GBd PAM4) optical interface
- Up to 500m over SMF
- Power dissipation ≤ 16W
- 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
- InfiniBand NDR
- Data center networks
- AI/ML Computing

### Specifications

Parameter	Unit
Part Number	HSO1-800-DR-P8S
Data Rate	800Gbps
Supply Voltage	3.3V
Power Consumption	≤ 16W
Wavelength	1310nm
Optical Connector	Dual MPO-12/APC
Transmitter	<i>Hyper Silicon™</i> Photonics
Case Temperature	0°C to 70°C
Reach	500m over SMF