

The Hyper Photonix HSD2-800-LP-P8S transceiver is designed for 800G Ethernet communication application links over 500m of single-mode fiber (SMF), and it is compliant with QSFP112-DD800 MSA, 800G Pluggable MSA, CMIS 5.1, IEEE 802.3ck, and 802.3df standards. The HSD2-800-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

- QSFP112-DD800 MSA and CMIS 5.1 compliant
- MPO-16 APC connector
- 8x106.25Gbps (53.125GBd PAM4) electrical interface
- 8x106.25Gbps (53.125GBd PAM4) optical interface
- Up to 500m over SMF
- Power dissipation ≤ 9W
- Operating case temperature: 0°C to 70°C
- IEEE 802.3ck and IEEE 802.3df compliant
- Built-in digital diagnostic functions
- 3.3V power supply voltage
- RoHS compliant



### Applications

- 800G Ethernet
- Data center networks

### Specifications

Part Number	HSD2-800-LP-P8S
Data Rate	850Gbps
Supply Voltage	3.3V
Power Consumption	≤ 9W
Wavelength	1310nm
Case Temperature	0°C to 70°C
Reach	500m