

The Hyper Photonix HSD2-800-DR-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 802.3cu, and 802.3ck 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, Breakout 2x400G DR4 or 8x100G DR Application. 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 $\leq 17W$
- Operating case temperature: 0°C to 70°C
- IEEE 802.3cu and IEEE 802.3ck compliant
- Built-in digital diagnostic functions
- 3.3V power supply voltage
- RoHS compliant



Applications

- 800G Ethernet
- Datacenter networks

Specifications

Part Number	HSD2-800-DR-P8S
Data Rate	800Gbps
Supply Voltage	3.3V
Power Consumption	$\leq 17W$
Wavelength	1310nm
Optical Connector	MTP/MPO-16
Transmitter	Hyper Silicon™ Photonics
Case Temperature	0°C to 70°C
Reach	500m over SMF