

The Hyper Photonix 800GBASE-DR8 QSFP-DD 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 QSFP-DD800 MSA, 800G Pluggable MSA, CMIS 4.0, IEEE 802.3cu, and 802.3ck standards. The module has 8 parallel transmitter and receiver lanes operating at 1310nm and 106.25Gbps per lane. It is suitable for 800G Ethernet ecosystems in 2x400G breakout and 8x100G applications.

Features

- QSFP-DD800 MSA and CMIS 4.0 compliant
- MPO-16/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
- IEEE 802.3cu and IEEE 802.3ck compliant
- Built-in digital diagnostic functions
- 3.3V power supply voltage
- RoHS compliant



Applications

- 800G Ethernet
- Data center networks
- AI/ML Computing

Specifications

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