

The Hyper Photonix HSQ4-400-DF-C2S transceiver is designed for 400G Ethernet communication application links over 2km of single-mode fiber (SMF), and it is compliant with QSFP112 MSA, CMIS 5.1, IEEE 802.3df, and 802.3ck 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 106.25Gbps. The optical interface is MTP/MPO-12 APC connector.

Features

- QSFP112 MSA 2.1.1 and CMIS 5.1 compliant
- MPO-12 APC connector
- 4x106.25Gbps (53.125GBd PAM4) electrical interface
- 4x106.25Gbps (53.125GBd PAM4) optical interface
- Up to 2km over SMF
- Power dissipation $\leq 9W$
- Operating case temperature: 0°C to 70°C
- IEEE 802.3df 400GBASE-DR4-2 compliant
- Built-in digital diagnostic functions
- 3.3V power supply voltage
- RoHS compliant



Applications

- 400GBASE-DR4 Ethernet
- Data center networks

Specifications

Part Number	HSQ4-400-DF-C2S
Data Rate	400Gbps
Supply Voltage	3.3V
Power Consumption	$\leq 9W$
Wavelength	1310nm
Optical Connector	MTP/MPO-12 APC
Transmitter	<i>Hyper Silicon™ Photonics</i>
Case Temperature	0°C to 70°C
Reach	2km over SMF