

The Hyper Photonix HSQ4-400-LP-C2S transceiver is designed for 400G Ethernet and InfiniBand communication application links over 500m of single-mode fiber (SMF), and it is compliant with QSFP112 MSA, CMIS 5.1, IEEE 802.3bs, and 802.3ck standards. The HSQ4-400-LP-C2S uses LPO solution. It is a high-performance, low-power, low-latency and cost-effective module. The module contains 4 parallel channels on the transmitter and receiver, each operating at 106.25Gbps. The optical signal is transmitted over four parallel channels at a central wavelength of 1310nm. The optical interface is MTP/MPO-12 APC connector.

### Features

- QSFP112 MSA 2.1.1 and CMIS 5.1 compliant
- Single MPO-12/APC optical connector
- 4x106.25Gbps (53.125GBd PAM4) electrical interface
- 4x106.25Gbps (53.125GBd PAM4) optical interface
- Up to 500m over SMF
- Power dissipation  $\leq 4.5W$
- Operating case temperature: 0°C to 70°C
- IEEE 802.3bs 400GBASE-DR4 compliant
- Built-in digital diagnostic functions
- 3.3V power supply voltage
- RoHS compliant



### Applications

- 400GBASE-DR4 Ethernet
- Data center networks
- InfiniBand NDR

### Specifications

Part Number	HSQ4-400-LP-C2S
Data Rate	425Gbps
Supply Voltage	3.3V
Power Consumption	$\leq 4.5W$
Wavelength	1310nm
Case Temperature	0°C to 70°C
Reach	500m