

The Hyper Photonix HQ4-400-1Q4-SXXX Active Optical Cable is designed for 400G Ethernet and InfiniBand communication application links over single-mode fiber (SMF), and it is compliant with QSFP112 MSA, CMIS 5.1 and IEEE802.3ck standards. The HQ4-400-1Q4-SXXX AOC is a high-performance, cost-effective cable. It integrates four data lanes in each direction with 4x106.25Gbps. The built-in digital diagnostics monitoring (DDM) allows access to real-time operating parameters.

### Features

- Compliant with QSFP112 MSA 2.1.1 and CMIS 5.1
- 4x106.25Gbps (53.125GBd PAM4) electrical interface
- Support 1m to 100m Transmission with SMF
- Power dissipation  $\leq 9W$  (per end)
- Operating case temperature: 0°C to 70°C
- Compliant with IEEE802.3ck
- Built-in digital diagnostic functions
- 3.3V power supply voltage
- RoHS compliant



### Applications

- 400G Ethernet
- Data center networks
- InfiniBand NDR

### Specifications

Part Number	HQ4-400-1Q4-SXXX
Data Rate	425Gbps
Supply Voltage	3.3V
Power Consumption	$\leq 9W$
Wavelength	1310nm
Case Temperature	0°C to 70°C
Lenth	XXXm where XXX = up to 100m