

# SFP Optical Transceivers

## Small Form Pluggable Optical Modules



- Multimode and single-mode fiber
- Gigabit Ethernet, Fast Ethernet, Fiber channel, ATM/SONET, SDH
- Hot-pluggable with durable metal enclosure
- Can be installed in any Cisco or MSA SFF-8472 compliant port
- Enhanced digital diagnostic information
- CWDM modules available supporting standard wavelengths defined by ITU-T G.694.2
- 32°F to 158°F (0°C to 70°C) and -40°F to 185°F (-40°C to +85°C ) SFP case operating temperatures

Perle SFP Optical Transceivers are hot-swappable, compact media connectors that provide instant fiber connectivity for your networking gear. They are a cost effective way to connect a single network device to a wide variety of fiber cable distances and types.

By eliminating the need to maintain surplus units/ devices of various fiber types for network repairs or upgrades Small Form Pluggable Optical Transceivers reduce network equipment inventories. SFPs allow one product the flexibility to expand by speed (Fast Ethernet and 1, 10, or 40 Gigabit), and/or distance (220 m to 80 km).

Network upgrades are also made easier because SFPs are interchangeable fiber connectors that can adapt to any existing network. For example, by simply replacing the pluggable optical transceiver, a media converter that was originally used in a multimode network can be re-configured to operate over a CWDM network.

Perle SFP Optical Transceivers can be used and interchanged on a wide variety of Cisco or MSA compliant SFP products. They can be intermixed in combinations of 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-EX, 1000BASE-ZX, or 1000BASE-BX10-D/U on a port-by-port basis.

Perle SFP Optical Transceivers are designed for use with **Perle SFP Media Converters, Industrial Ethernet Switches, IOLAN SCG Console Servers** and third party equipment that supports SFP transceivers. Select the appropriate tab above to view Duplex, Simplex(BiDi), CWDM or 10 Gigabit SFP+ and XFP Models.

## Perle SFP Transceiver Features

### Broad range of Fiber applications

Popular networking protocols such as Ethernet, Fibre Channel, ATM/SONET OC-X, SDH STM-X can be used with these modules

### Cisco IOS Compatible

All Perle SFPs can be installed in all Cisco SFP-based routers and switches and are fully compatible with Cisco's IOS software.

## MSA SFF-8472 Compliant

All SFPs fully comply with the Multi Sourcing Agreement (MSA).

## Enhanced digital diagnostic information (DOM or DMI)

Provides readable digital diagnostic information for managed gear to assist network administrators with network maintenance and management

## Industrial Temperature models

Industrial -40°F to 185°F (-40°C to 85°C) case temperature models are available for extended temperature environments

## CWDM models

CWDM Pluggable Optical Transceivers increase network capacity by transmitting multiple data channels using separate optical wavelengths (1470nm to 1610nm) on the same fiber pair. These wavelengths are compliant to the ITU G.694 CWDM standard.

## Safety

EN 60950-1:2006+A11+A1+A12+A2

## Emissions

- CISPR 32:2015 + COR1:2016 (Class B) / EN55032:2015+AC:2016 (Class B)
- EN55011 (CISPR11)

## EMC and Immunity

CISPR 24:2010/EN 55024:2010

## Laser Safety

Fiber optic transmitters on this device meet Class 1 Laser safety requirements per IEC-60825 FDA/CDRH standards and comply with 21CFR1040.10 and 21CFR1040.11.

- EN 60825-1:2014
- EN 60825-2:2004+A1+A2

## Environmental

### Reach, RoHS and WEEE Compliant

## Other

- ECCN: EAR99
- HTSUS Number: 8517.62.0020
- Warranty - 2 year return to factory
- **EU Declaration of Conformity**