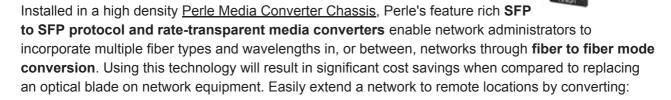
C-4GPT-DSFP Fiber Mode Converter Module



perle.com/products/sfp-to-sfp-media-converter-module.shtml

SFP to SFP Protocol Transparent Media Converter

- Easy Fiber to Fiber network extension to remote locations
- Provide wavelength conversion for CWDM and DWDM transponder applications
- Protocol-transparency support for all network protocols
- Support for SFP transceivers with data rates up to 4.25 Gbps
- Reliable operation with advanced features like Smart Link Pass-Through and Fiber Fault Alert
- For use in high density applications with Perle Media Converter Chassis



- · Multimode to Multimode
- Multimode to Single Mode
- · Single Mode to Single Mode
- Dual to single fiber (Duplex to Simplex BiDi)

SFP to SFP Conversion

The C-4GPT-DSFP Fiber Mode Converter Module comes with two empty SFP slots. This allows for flexible network configurations using SFP fiber transceivers supplied by Perle, Cisco or other manufacturers of MSA compliant SFPs. Adapting to different fiber types, distances and wavelengths is made simple by mixing and matching SFP's as needed for maximum flexibility across a variety of topologies and network architectures. The hot-swappable nature of SFPs allow for easy configuration and future upgrades as network demands evolve by simply upgrading a single SFP instead of replacing the entire fiber mode converter.

Convert different wavelengths (WDM Transponders)

SFP transceivers also enable the C-4GPT-DSFP Fiber Mode Converter Module to operate as a Wave Division Multiplexing (WDM) transponder. Also referred to as Bi-Directional (BiDi) or Simplex, WDM Transponders help network administrators take advantage of the cost savings in both material and labour associated with Single Strand Fiber. WDM uses separate transmit and receive frequencies to communicate on a single fiber strand. WDM technology relies on the fact that optical fibers can carry many wavelengths of light simultaneously without interaction between each wavelength. Thus, a single fiber can carry many separate wavelength signals or channels simultaneously. WDM systems are divided into different wavelength patterns, conventional/coarse (CWDM) and dense (DWDM).

C-4GPT-DSFP Fiber Mode Converter Module Features

Network Administrators can "see-everything" with Perle's advanced features such as Smart Link Pass-Through and Fiber Fault Alert. This allows for more efficient troubleshooting and less on-site maintenance. These cost and time saving features, along with a lifetime warranty and free worldwide technical support, make the C-4GPT-DSFP Fiber Mode Converter Module the smart choice for IT professionals.

Protocol Transparency

Transparent to all protocols (including but not limited to)

• Ethernet: 10Base-FL

is no signal.

is no signal.

LK2

Switches

- Fast Ethernet: 100Base-X
- Gigabit Ethernet (1.25G , 2.5G) : 1000Base-X
- GR-253-CORE: ATM/SONET (OC-3, OC-12, OC-48)
- G.957 : SDH (STM-1, STM-4, STM-16)
- Fibre Channel: (FC-1, FC-2, FC-4)
- FDDI, IBM protocols ESCON and FICON

	Video protocols (DVB, SDI, HD-SDI, SMTPE)
Rate Transparency	Supports SFP data rates up to 4.25Gbps.
Smart Link Pass- Through	Smart Link Pass-Through when enabled ensures that the link state on a fiber connection is directly reflected through the media converter to the other connection. If link is lost on one of the connections, then the other link will be brought down by the media converter. This feature applies when both SFP slots are occupied.
	If set in Standard Mode, the link is kept active. The unit will transmit a 25Mhz keep-alive signal to artificially keep the link up.
Fiber Fault Alert	If the media converter module detects a loss of fiber, it will immediately notify the fiber link partner that an error condition exists.
Power	
Power Consumption	4 watts
Indicators	
Power	This green LED is turned on when power is applied to the media converter. This LED is off when there is no power supplied. A Blinking LED will indicate that a hardware error has been detected.
LK1	LED is ON when a signal is detected on LK1. LED is OFF when there

LED is ON when a signal is detected on LK2. LED is OFF when there

2/5

Link Mode

Smart Link Pass-Through when enabled (Default) ensures that the link state on a fiber connection is directly reflected through the media converter to the other connection. If link is lost on one of the connections, then the other link will be brought down by the media converter. This feature applies when both SFP slots are occupied. If set in Standard Mode, the link is kept active. The unit will transmit a 25Mhz keep-alive signal to artificially keep the link up.

Fiber Fault Alert

If the media converter module detects a loss of fiber, it will immediately notify the fiber link partner that an error condition exists. *Disabled (Default)*. The Media Converter will not monitor for fiber fault.

Multi-speed SFP

When enabled, identifies that the SFPs inserted are MSA complaint SFPs that have a multi-rate capability. When disable (Default), no action is performed in this context.

Rate Select

This enables rate selection when using dual-rate capable SFPs. If the "Multi-Speed SFP" select switch is in the "Disabled" position, this switch is ignored.

High Speed - UP (default)

Low Speed - DOWN

2 x SFP Slots

SFPs

SFP line rates up to 4.25Gbps are supported. The SFPs occupying each slot in the media converter however must be operating at the same speed.

SFP power level 1 and 2 are supported.

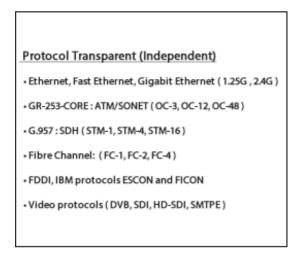
Environmental Specifications

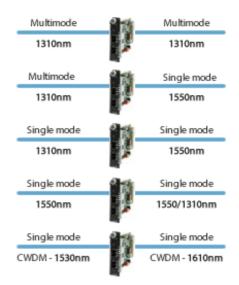
	· openiosis
Operating Temperature	0° C to 50° C (32° F to 122° F)
Storage Temperature	minimum range of -25° C to 70° C (-13° F to 158° F).
Operating Humidity	5% to 90% non-condensing
Storage Humidity	5% to 95% non-condensing
Operating Altitude	Up to 3,048 meters (10,000 feet)
Heat Output (BTU/HR)	13.65

MTBF (Hours)	861,306 (Calculation model based on MIL-HDBK-217-FN2 @ 30 °C)	
Packaging		
Shipping Weight	.25 Kg, 0.6 lbs	
Shipping Dimensions	150 x 210 x 40 mm, 5.9 x 8.3 x 1.6 inches	
Regulatory Approvals		
	FCC Part 15 Class A, EN55022 Class A	
	CISPR 22 Class A CISPR 32:2015/EN 55032:2015 (Class A) CISPR 24:2010/EN 55024:2010	
Emissions	EN61000-3-2	
Immunity	EN55024	
	UL/EN/IEC 62368-1 CAN/CSA C22.2 No. 62368-1	
Floatrical	UL 60950-1 IEC 60950-1(ed 2); am1, am2 EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013	
Electrical Safety	CE	
Laser Safety	Dependent on SFPs used. SFPs that meet Class 1 Laser safety requirements per IEC-60825 FDA/CDRH standards and comply with 21CFR1040.10 and 21CFR1040.11 are recommended for use with this product.	
Environmental	Reach, RoHS and WEEE Compliant	
	ECCN: 5A991	
	HTSUS Number: 8517.62.0020	
Other	Perle Limited Lifetime Warranty	
Fiber to Fiber Mode Conversion		

Interconnect Multiple Fiber Types and Wavelengths

SFP to SFP protocol-transparent fiber converters enable network administrators to incorporate multiple fiber types and wavelengths within or between networks. See below some examples.





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