

**Introduction:**

Fiberdyne Lab’s SFP Transceivers are standard complaint modules, which are used in a variety of Ethernet equipment, such as our FTX-250 series of media converters and our Ethernet switches. As the name implies, the SFP modules simply plug into the available equipment ports. If your requirements change, you simply unplug your existing SFP module, and plug-in your new module. Fiberdyne Labs offers a wide variety of SFP modules (i.e. T, SX, LX, ZX, CWDM, DWDM and BiDi) to meet your Gigabit Ethernet requirements.



**Features:**

- Complies with IEEE Standard 802.3 (1000Base or “Gigabit Ethernet”)
- INF 8074i – SFP MSA (Multi-Source Agreement) compliant modules
- Connectors: RJ-45 for unshielded twisted pair (UTP); LC for fiber
- Standard telecommunications wavelengths for fiber applications (SX and LX)
- Enhanced formats for long-haul or multiplexing applications
- 1550-nm (ZX)
- CWDM (Coarse Wavelength Division Multiplexing)
- DWDM (Dense Wavelength Division Multiplexing)
- BiDi (bi-directional – transmit and receive multiplexed on a single fiber)
- Hot-pluggable -- uses single 3.3 VDC power

**Options: Multiple Formats**

Standard and “Enhanced”	Connector Type	Cable Type
1000Base-T	RJ-45	UTP (Cat 5)
1000Base-SX	Duplex LC	MMF (62.5/125) MMF (50/125)
1000Base-LX	Duplex LC	MMF (both) SMF (9/125)
1000Base “ZX”	Duplex LC	SMF (9/125)
1000Base “CWDM”	Duplex LC	SMF (9/125)
1000Base “DWDM”	Duplex LC	SMF (9/125)
1000Base “BiDi”	Simplex LC	SMF (9/125)

**Special Note about compatibility:**

While our SFP transceivers are fully-compliant with IEEE 802.3 and the “SFP” MSA, they may not be compatible with some network switch equipment. Some switch manufacturers program their equipment, to accept only their brand of SFPs. Our experience has shown, that Cisco and HP are two such manufacturers. Therefore, if you have switch equipment from such a manufacturer, our SFPs may not be supported by your equipment.

**Specifications:**

[Technical Data Sheet](#)

**Application Note:**

[Ethernet Cable Choices & Link Distances](#)

**Ordering Information:**

[SFP GbE Transceiver - Part Number Build Matrix](#)

**Product Specification:**

Item Description	Unit	Value
Standard Compliance		IEEE 802.3z MSA
SFP Module Properties		Hot-swappable Wire-speed Transfer
Available SFP Configurations * - 1000Base (Gigabit Ethernet) - "Enhanced" (Gigabit Ethernet)		T, SX, LX, ZX, CWDM, DWDM, BiDi
Center Wavelength (fiber-optic SFPs) - SX - LX - "ZX" - CWDM - DWDM - BiDi (bi-direction, single-fiber)	nm	850 1310 1550 Per ITU-T G.694.2 Per ITU G.694.1 1310 (Alpha)/1490 (Omega)
Temperature – Operating	°C	0 to +70
Temperature – Storage	°C	-40 to +85
Overall Dimensions (L x W x H)	mm	57 x 14 x 13

**SFP Configurations**

Standard and "Enhanced"	Output Power (dBm)	Input Power (dBm)	Rated Distance (Meters)	Min. Power Budget (dB)
1000Base-T	-	-	100	-
1000Base-SX**	-9 to -3	-17 to -3	275 500	8
1000Base-LX	-9 to -3	-21 to -3	550 1000	12
"ZX" (1550-nm)	0 to +2	-24 to -3	80000	24
"CWDM"	-5 to 0	-23 to -3	50000	18
"DWDM"	0 to +2	-28 to -6	80000	28
"BiDi" Alpha/Omega	-9 to -3	-20 to -3	10000	11

**\*\*Note:** Longer 1000Base-SX distances are possible, when using Fiberdyne "10-Gigabit" fiber-optic, cable and jumper assemblies.

Small Form-factor Pluggable (SFP) Transceivers Part Number Build Matrix		
FGE - SFP -	_____	_____
	(1000Base-)	(Format)

1000Base	Options
	T 1000Base-T, Twisted Pair, RJ-45 S 1000Base-SX, 850-nm, Multimode, LC L 1000Base-LX, 1310-nm, Multimode/Single-mode, LC Z 1550-nm, Single-mode, LC C CWDM, Single-mode, LC * D DWDM, Single-mode, LC * B BiDi (bi-directional, single-fiber), Single-mode, LC *
* <b>Note:</b> must specify format, per the following table.	

Format	Options
For CWDM	1470 = 1470 nm 1490 = 1490 nm 1510 = 1510 nm 1530 = 1530 nm 1550 = 1550 nm 1570 = 1570 nm 1590 = 1590 nm 1610 = 1610 nm
For DWDM	CHxx, where "xx" = ITU Grid Channel Number (e.g. CH23) <a href="#">ITU Grid</a>
For BiDi	A = Alpha (TX 1310, RX 1490) O = Omega (TX 1490, RX 1310)

Center Wavelengths **	Cisco® "Colors"	Wavelength "Codes" ***
1470	Gray	47
1490	Violet	49
1510	Blue	51
1530	Green	53
1550	Yellow	55
1570	Orange	57
1590	Red	59
1610	Brown	61

**Notes:** \*\* Per ITU G.694.2; wavelength spacing = 20nm.  
 \*\*\* Some vendors use these "codes," to describe the wavelengths.  
 These codes are the middle digits of the wavelength-not "channel numbers."

Example:	
FGE-SFP-T	Gigabit Ethernet, SFP Transceiver, 1000Base-T, RJ-45
FGE-SFP-C-1470	Gigabit Ethernet, SFP Transceiver, CWDM (1470-nm), LC
FGE-SFP-B-A	Gigabit Ethernet, SFP Transceiver, BiDi (Alpha), LC

**Basic (includes IEEE Standard formats and 1550-nm)**

Part Number	Description
FGE-SFP-T	1000Base-TX, RJ-45
FGE-SFP-S	1000Base-SX, 850-nm, Multimode, LC
FGE-SFP-L	1000Base-LX, 1310-nm, Multimode/Single-mode, LC
FGE-SFP-Z	1000Base-ZX, 1550-nm, Single-mode, LC

## CWDM (Course Wavelength Division Multiplexing)

Part Number	Description
FGE-SFP-C-1470	1000Base, CWDM, Singlemode, LC, 1470
FGE-SFP-C-1490	1000Base, CWDM, Singlemode, LC, 1490
FGE-SFP-C-1510	1000Base, CWDM, Singlemode, LC, 1510
FGE-SFP-C-1530	1000Base, CWDM, Singlemode, LC, 1530
FGE-SFP-C-1550	1000Base, CWDM, Singlemode, LC, 1550
FGE-SFP-C-1570	1000Base, CWDM, Singlemode, LC, 1570
FGE-SFP-C-1590	1000Base, CWDM, Singlemode, LC, 1590
FGE-SFP-C-1610	1000Base, CWDM, Singlemode, LC, 1610

## BiDi (bi-directional, single-fiber)

Part Number	Description
FGE-SFP-B-A	Alpha (TX 1310, RX 1490)
FGE-SFP-B-O	Omega (TX 1490, RX 1310)

**Note:** Alpha and Omega must be used together for proper link operation.  
Therefore, purchase Alpha and Omega SFPs as pairs.

MSA Compliant SFP (155M/622M/1.25G/2.125G/2.5G/4.25G) without DDMI

Fiberdyne Part Number	Data Rate	Wavelength	Distance	Package	Temp.	Source
FDN-P850302C	155M	850	2km	SFP	0~70	850nm VCSEL
FDN-P310302C	155M	1310	2km	SFP	0~70	FP(LED)+PIN
FDN-P3103L2C	155M	1310	20km	SFP	0~70	FP+PIN
FDN-P3103L4C	155M	1310	40km	SFP	0~70	FP+PIN
FDN-P5503L8C	155M	1550	80km	SFP	0~70	DFB+PIN
FDN-P3112L2C	622M	1310	20km	SFP	0~70	FP+PIN
FDN-P3112L4C	622M	1310	40km	SFP	0~70	DFB+PIN
FDN-P8524S5C	1.25G	850	550M	SFP	0~70	VCSEL+PIN
FDN-P3124L2C	1.25G	1310	20km	SFP	0~70	FP+PIN
FDN-P3124L4C	1.25G	1310	40km	SFP	0~70	DFB+PIN
FDN-P5524L6C	1.25G	1550	60km	SFP	0~70	DFB+PIN
FDN-P5524L8C	1.25G	1550	80km	SFP	0~70	DFB+PIN
FDN-P5524I2C	1.25G	1550	120km	SFP	0~70	DFB+APD
FDN-P8548S5C	2.155G/2.5G	850	300M	SFP	0~70	VCSEL+PIN
FDN-P314802C	2.155G/2.5G	1310	2km	SFP	0~70	FP+PIN
FDN-P3148L2C	2.155G/2.5G	1310	20km	SFP	0~70	DFB+PIN
FDN-P3148L4C	2.155G/2.5G	1310	40km	SFP	0~70	DFB+PIN
FDN-P3148L4C	2.155G/2.5G	1310	40km	SFP	0~70	DFB+APD
FDN-P5548L6C	2.155G/2.5G	1550	60km	SFP	0~70	DFB+APD
FDN-P5548L8C	2.155G/2.5G	1550	80km	SFP	0~70	DFB+APD

MSA Compliant SFP (155M/1.25G/2.125G/2.5G/4.25G) with DDMI

Fiberdyne Part Number	Data Rate	Wavelength	Distance	Package	Temp.	Source
FDN-P850302CD	155M	850	2km	SFP	0~70	850nm VCSEL
FDN-P310302CD	155M	1310	2km	SFP	0~70	FP(LED)+PIN
FDN-P3103L1CD	155M	1310	10km	SFP	0~70	FP+PIN
FDN-P3103L4CD	155M	1310	40km	SFP	0~70	FP+PIN
FDN-P5503L8CD	155M	1550	80km	SFP	0~70	DFB+PIN
FDN-P3112L2CD	622M	1310	20km	SFP	0~70	FP+PIN
FDN-P3112L4CD	622M	1310	40km	SFP	0~70	DFB+PIN
FDN-P5512L8CD	622M	1550	80km	SFP	0~70	DFB+PIN
FDN-P8524S5CD	1.25G	850	550M	SFP	0~70	VCSEL+PIN
FDN-P3124L2CD	1.25G	1310	20km	SFP	0~70	FP+PIN
FDN-P3124L4CD	1.25G	1310	40km	SFP	0~70	DFB+PIN
FDN-P5524L6CD	1.25G	1550	60km	SFP	0~70	DFB+PIN
FDN-P5524L8CD	1.25G	1550	80km	SFP	0~70	DFB+PIN
FDN-P5524I2CD	1.25G	1550	120km	SFP	0~70	DFB+APD
FDN-P8548S5CD	2.125G/2.5G	850	300M	SFP	0~70	VCSEL+PIN
FDN-P314802CD	2.125G/2.5G	1310	2km	SFP	0~70	FP+PIN
FDN-P3148L2CD	2.125G/2.5G	1310	20km	SFP	0~70	DFB+PIN
FDN-P3148L4CD	2.125G/2.5G	1310	40km	SFP	0~70	DFB+APD
FDN-P5548L6CD	2.125G/2.5G	1550	60km	SFP	0~70	DFB+APD
FDN-P5548L8CD	2.125G/2.5G	1550	80km	SFP	0~70	DFB+APD
FDN-P854GS5CD	4.25G	850	500M	SFP	0~70	VCSEL+PIN
FDN-P314GL1CD	4.25G	1310	10km	SFP	0~70	DFB+PIN

1000Base-T Copper SFP

Fiberdyne Part Number	Data Rate	Wavelength	Distance	Package	Temp.	Source
FDN-GBP1RC	10/100/1000	---	100M(UTP-5)	Copper SFP	0~70	---
FDN-GBP3RC	1000M	---	100M(UTP-5)	Copper SFP	0~70	---

SGMII SFP (125M)

Fiberdyne Part Number	Data Rate	Wavelength	Distance	Package	Temp.	Source
FDN-GPH130202C(D)	125M	1310	2km	SGMII SFP	0~70	FP+PIN
FDN-GPH3102L1C(D)	125M	1310	2km	SGMII SFP	0~70	FP+PIN

BIDI SFP (155M/1.25G "LC Interface") without DDMI

Fiberdyne Part Number	Data Rate	Wavelength	Distance	Package	Temp.	Source
FDN-PB3503LL2C	155M	1310/1550	0-20km	BIDI SFP	0~70	FP+PIN
FDN-PB5303LL2C	155M	1550/1310	0-20km	BIDI SFP	0~70	FP+PIN
FDN-PB3403LL2C	155M	1310/1490	0-20km	BIDI SFP	0~70	FP+PIN
FDN-PB4303LL2C	155M	1490/1310	0-20km	BIDI SFP	0~70	DFB+PIN
FDN-PB3503LL4C	155M	1310/1550	40km	BIDI SFP	0~70	FP+PIN
FDN-PB5303LL4C	155M	1550/1310	40km	BIDI SFP	0~70	FP+PIN
FDN-PB3403LL4C	155M	1310/1490	40km	BIDI SFP	0~70	FP+PIN
FDN-PB4303LL4C	155M	1490/1310	40km	BIDI SFP	0~70	DFB+PIN
FDN-PB3524L02C	1.25G	1310/1550	2km	BIDI SFP	0~70	FP+PIN
FDN-PB5324L02C	1.25G	1550/1310	2km	BIDI SFP	0~70	FP+PIN
FDN-PB3524LL2C	1.25G	1310/1550	0-20km	BIDI SFP	0~70	FP+PIN
FDN-PB5324LL2C	1.25G	1550/1310	0-20km	BIDI SFP	0~70	DFB+PIN
FDN-PB3424LL2C	1.25G	1310/1490	0-20km	BIDI SFP	0~70	FP+PIN
FDN-PB4324LL2C	1.25G	1490/1310	0-20km	BIDI SFP	0~70	DFB+PIN
FDN-PB3524LL4C	1.25G	1310/1550	0-20km	BIDI SFP	0~70	DFB+PIN
FDN-PB5324LL4C	1.25G	1550/1310	40km	BIDI SFP	0~70	DFB+PIN
FDN-PB3424LL4C	1.25G	1310/1490	40km	BIDI SFP	0~70	DFB+PIN
FDN-PB4324LL4C	1.25G	1490/1310	40km	BIDI SFP	0~70	DFB+PIN



BIDI SFP (155M/1.25G "LC Interface") with DDMI

Fiberdyne Part Number	Data Rate	Wavelength	Distance	Package	Temp.	Source
FDN-PB3503LL2CD	155M	1310/1550	0-20km	BIDI SFP	0~70	FP+PIN
FDN-PB5303LL2CD	155M	1550/1310	0-20km	BIDI SFP	0~70	FP+PIN
FDN-PB3403LL2CD	155M	1310/1490	0-20km	BIDI SFP	0~70	FP+PIN
FDN-PB4303LL2CD	155M	1490/1310	0-20km	BIDI SFP	0~70	DFB+PIN
FDN-PB3503LL4CD	155M	1310/1550	40km	BIDI SFP	0~70	FP+PIN
FDN-PB5303LL4CD	155M	1550/1310	40km	BIDI SFP	0~70	FP+PIN
FDN-PB3403LL4CD	155M	1310/1490	40km	BIDI SFP	0~70	FP+PIN
FDN-PB4303LL4CD	155M	1490/1310	40km	BIDI SFP	0~70	DFB+PIN
FDN-PB3524L02CD	1.25G	1310/1550	2km	BIDI SFP	0~70	FP+PIN
FDN-PB5324L02CD	1.25G	1550/1310	2km	BIDI SFP	0~70	FP+PIN
FDN-PB3524LL2CD	1.25G	1310/1550	20km	BIDI SFP	0~70	FP+PIN
FDN-PB5324LL2CD	1.25G	1550/1310	20km	BIDI SFP	0~70	DFB+PIN
FDN-PB3424LL2CD	1.25G	1310/1490	20km	BIDI SFP	0~70	FP+PIN
FDN-PB4324LL2CD	1.25G	1490/1310	20km	BIDI SFP	0~70	DFB+PIN
FDN-PB3524LL4CD	1.25G	1310/1550	40km	BIDI SFP	0~70	DFB+PIN
FDN-PB5324LL4CD	1.25G	1550/1310	40km	BIDI SFP	0~70	DFB+PIN
FDN-PB3424LL4CD	1.25G	1310/1490	40km	BIDI SFP	0~70	DFB+PIN
FDN-PB4324LL4CD	1.25G	1490/1310	40km	BIDI SFP	0~70	DFB+PIN

**BIDI SFP (155M/1.25G "SC Interface") without DDMI**

Fiberdyne Part Number	Data Rate	Wavelength	Distance	Package	Temp.	Source
FDN-PB3503SL2C	155M	1310/1550	0-20km	BIDI SFP	0~70	FP+PIN
FDN-PB5303SL2C	155M	1550/1310	0-20km	BIDI SFP	0~70	FP+PIN
FDN-PB3403SL2C	155M	1310/1490	0-20km	BIDI SFP	0~70	FP+PIN
FDN-PB4303SL2C	155M	1490/1310	0-20km	BIDI SFP	0~70	DFB+PIN
FDN-PB3503SL4C	155M	1310/1550	40km	BIDI SFP	0~70	FP+PIN
FDN-PB5303SL4C	155M	1550/1310	40km	BIDI SFP	0~70	FP+PIN
FDN-PB3403SL4C	155M	1310/1490	40km	BIDI SFP	0~70	FP+PIN
FDN-PB4303SL4C	155M	1490/1310	40km	BIDI SFP	0~70	DFB+PIN
FDN-PB3524S02C	1.25G	1310/1550	2km	BIDI SFP	0~70	FP+PIN
FDN-PB5324S02C	1.25G	1550/1310	2km	BIDI SFP	0~70	FP+PIN
FDN-PB3524SL2C	1.25G	1310/1550	20km	BIDI SFP	0~70	FP+PIN
FDN-PB5324SL2C	1.25G	1550/1310	20km	BIDI SFP	0~70	DFB+PIN
FDN-PB3424SL2C	1.25G	1310/1490	20km	BIDI SFP	0~70	FP+PIN
FDN-PB4324SL2C	1.25G	1490/1310	20km	BIDI SFP	0~70	DFB+PIN
FDN-PB3524SL4C	1.25G	1310/1550	40km	BIDI SFP	0~70	DFB+PIN
FDN-PB5324SL4C	1.25G	1550/1310	40km	BIDI SFP	0~70	DFB+PIN
FDN-PB3424SL4C	1.25G	1310/1490	40km	BIDI SFP	0~70	DFB+PIN
FDN-PB4324SL4C	1.25G	1490/1310	40km	BIDI SFP	0~70	DFB+PIN

**CWDM SFP (1.25G/2.5G) without DDMI,  
XX=27, 29, 31...61, which 27=1270nm, 29=1290nm, and 61=1610nm**

Fiberdyne Part Number	Data Rate	Wavelength	Distance	Package	Temp.	Source
FDN-PCXX2404C	1.25G	(1270-1450nm)	40km	CWDM SFP	0~70	DFB+PIN
FDN-PCXX2408C	1.25G	(1470-1610nm)	80km	CWDM SFP	0~70	DFB+PIN
FDN-PCXX2412C	1.25G	(1470-1610nm)	120km	CWDM SFP	0~70	DFB+APD
FDN-PCXX4804C	2.5G	(1270-1450nm)	40km	CWDM SFP	0~70	DFB+PIN
FDN-PCXX4804C	2.5G	(1470-1610nm)	40km	CWDM SFP	0~70	DFB+PIN
FDN-PCXX4808C	2.5G	(1470-1610nm)	80km	CWDM SFP	0~70	DFB+APD

**CWDM SFP (1.25G/2.5G/4.25G) with DDMI,**  
**XX=27, 29, 31...61, which 27=1270nm, 29=1290nm, and 61=1610nm**

Fiberdyne Part Number	Data Rate	Wavelength	Distance	Package	Temp.	Source
FDN-PCXX2404CD	1.25G	(1270-1450nm)	40km	CWDM SFP	0~70	DFB+PIN
FDN-PCXX2408CD	1.25G	(1470-1610nm)	80km	CWDM SFP	0~70	DFB+PIN
FDN-PCXX2412CD	1.25G	(1470-1610nm)	120km	CWDM SFP	0~70	DFB+APD
FDN-PCXX4804CD	2.5G	(1270-1450nm)	40km	CWDM SFP	0~70	DFB+PIN
FDN-PCXX4804CD	2.5G	(1470-1610nm)	40km	CWDM SFP	0~70	DFB+PIN
FDN-PCXX4808CD	2.5G	(1470-1610nm)	80km	CWDM SFP	0~70	DFB+APD
FDN-PCXX4G04CD	4.25G	(1470-1610nm)	40km	CWDM SFP	0~70	DFB+PIN

**DWDM SFP (1.25G/2.5G) with DDMI,**  
**XX is C-Band and L-Band ITU, XX=17, 18, 19..., which 17=1563.86nm, 18=1563.05nm**

Fiberdyne Part Number	Data Rate	Wavelength	Distance	Package	Temp.	Source
FDN-PDXX2408CD	1.25G	C/L-Band ITU	80km	DWDM SFP	0~70	DFB+APD
FDN-PDXX2412CD	1.25G	C/L-Band ITU	120km	DWDM SFP	0~70	DFB+APD
FDN-PDXX4808CD	2.5G	C/L-Band ITU	80km	DWDM SFP	0~70	DFB+APD
FDN-PDXX4812CD	2.5G	C/L-Band ITU	120km	DWDM SFP	0~70	DFB+APD

Cisco® Compatible SFPs

Description	Cisco® Part Number	Fiberdyne Part Number
1000Base-T SFP Cisco® Compatible 1000Base-T Small Form-factor Pluggable (SFP) Mini GBIC* <a href="#">More Information</a>	GLC-T	FDN-GLC-T
10/100/1000Base-T Multi-rate SFP Cisco® Compatible Category 5 100M, RJ45	GLC-T-MR	FDN-GLC-T-MR
1000Base-SX SFP 1000Base-SX fiber mini GBIC card; The GLC-SX-MM, 1000Base-SX SFP operates on ordinary multimode fiber optic link spans of up to 550 meters.* <a href="#">More Information</a>	GLC-SX-MM	FDN-GLC-SX-MM
1000Base-LX SFP The GLC-LH-SM SFP operates on ordinary single-mode fiber link spans of up to 10,000 meters.* <a href="#">More Information</a>	GLC-LX/LH-SM	FDN-GLC-LX/LH-SM
1000Base-LX/LH SFP 40km, SMF	GLC-LHX-SM	FDN-GLC-LHX-SM
1000Base-EX SFP 40km, SMF	GLC-EX-SM	FDN-GLC-EX-SM
1000Base-ZX SFP Extended Distance* <a href="#">More Information</a>	GLC-ZX-SM	FDN-GLC-ZX-SM
1000Base-BX-10-D downstream bi-directional single fiber and 1000Base-BX10U upstream bi-directional single fiber.	GLC-BX-D & GLC-BX-U	FDN-GLC-BX-D& GLC-BX-U
100Base-EX Fast Ethernet SFP, 1310nm, SMF, 40km.	GLC-FE-100EX	FDN-GLC-FE-100EX
100Base-FX SFP 1310-nm MMF, 2km.	GLC-FE-100-FX	FDN-GLC-FE-100-FX
100Base-GE Fast Ethernet SFP, MMF, 2km.	GLC-GE-100FX	FDN-GLC-GE-100FX
100Base-LX Fast Ethernet SFP, 1310-nm, SMF, 10km.	GLC-FE-100LX	FDN-GLC-FE-100LX
100Base-ZX Fast Ethernet SFP, 1550nm, SMF, 80km.	GLC-FE-100ZX	FDN-GLC-FE-100ZX
1000Base-LX/LH 1310nm DDMI <a href="#">More Information</a>	SFP-GE-L	FDN-SFP-GE-L
1000Base-SX 850nm DDMI <a href="#">More Information</a>	SFP-GE-S	FDN-SFP-GE-S
1000Base-ZX 1550nm DDMI	SFP-GE-Z	FDN-SFP-GE-Z

Cisco® is a registered trademark of Cisco Systems, Inc.

\*Note: Refer to [Compatibility Chart](#)

Cisco® Compatible SFPs

Cisco® Part Number	Fiberdyne Part Number
SFP-OC3-MM	FDN-SFP-OC3-MM, MMF, 2km
SFP-OC3-SR	FDN-SFP-OC3-SR, SMF, 2km
SFP-OC3-IR1	FDN-SFP-OC3-IR1, SMF, 15km
SFP-OC3-LR1	FDN-SFP-OC3-LR1, SMF, 40km
SFP-OC3-LR2	FDN-SFP-OC3-LR2, SMF, 80km
SFP-OC12-MM	FDN-SFP-OC12-MM, MMF, 2km
SFP-OC12-SR	FDN-SFP-OC12-SR, SMF, 2km
SFP-OC12-IR1	FDN-SFP-OC12-IR1, SMF, 15km
SFP-OC12-IR1	FDN-SFP-OC12-IR1, SMF, 40km
SFP-OC12-LR2	FDN-SFP-OC12-LR2, SMF, 80km
SFP-OC48-SR	FDN-SFP-OC48-SR, SMF, 2km
SFP-OC48-IR1	FDN-SFP-OC48-IR1, SMF, 15km
SFP-OC48-LR2	FDN-SFP-OC48-LR2, SMF, 80km

Cisco® Compatible CWDM SFPs (80km)

Description	Cisco® Part Number	Fiberdyne Part Number
CWDM SFP 1470-nm <a href="#">More Information</a>	CWDM-SFP-1470	FDN-CWDM-SFP-1470-nm
CWDM SFP 1490-nm <a href="#">More Information</a>	CWDM-SFP-1490	FDN-CWDM-SFP-1490-nm
CWDM SFP 1510-nm <a href="#">More Information</a>	CWDM-SFP-1510	FDN-CWDM-SFP-1510-nm
CWDM SFP 1530-nm <a href="#">More Information</a>	CWDM-SFP-1530	FDN-CWDM-SFP-1530-nm
CWDM SFP 1550-nm <a href="#">More Information</a>	CWDM-SFP-1550	FDN-CWDM-SFP-1550-nm
CWDM SFP 1570-nm <a href="#">More Information</a>	CWDM-SFP-1570	FDN-CWDM-SFP-1570-nm
CWDM SFP 1590-nm <a href="#">More Information</a>	CWDM-SFP-1590	FDN-CWDM-SFP-1590-nm
CWDM SFP 1610-nm <a href="#">More Information</a>	CWDM-SFP-1610	FDN-CWDM-SFP-1610-nm

Cisco® Compatible CWDM SFPs (120km)

Cisco® Part Number	Fiberdyne Part Number
CWDM-SFP-1470-120km	FDN-CWDM-SFP-1470-120km
CWDM-SFP-1490-120km	FDN-CWDM-SFP-1490-120km
CWDM-SFP-1510-120km	FDN-CWDM-SFP-1510-120km
CWDM-SFP-1530-120km	FDN-CWDM-SFP-1530-120km
CWDM-SFP-1550-120km	FDN-CWDM-SFP-1550-120km
CWDM-SFP-1570-120km	FDN-CWDM-SFP-1570-120km
CWDM-SFP-1590-120km	FDN-CWDM-SFP-1590-120km
CWDM-SFP-1610-120km	FDN-CWDM-SFP-1610-120km

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3Com Compatible SFPs

Description	Part Number	Fiberdyne Part Number
3Com 100% compliant, Gigabit Ethernet SFP, transceiver module for MMF, 850-nm wavelength, LC connector, 1000Base-SX. <a href="#">More Information</a>	3CSFP91	FDN-3CSFP91
3Com 100% compliant, Gigabit Ethernet SFP, transceiver module for MMF, 1300-nm wavelength, LC connector, 1000Base-LX. <a href="#">More Information</a>	3CSFP92	FDN-3CSFP92
3Com 100% compliant, Gigabit Ethernet SFP, transceiver module for copper networks, 1000Base-T. <a href="#">More Information</a>	3CSFP93	FDN-3CSFP93
3Com 100% compliant, Gigabit Ethernet SFP, transceiver module for MMF, 1550-nm, 1000Base-ZX. <a href="#">More Information</a>	3CSFP97	FDN-3CSFP97

Nortel Compatible SFPs

Description	Part Number	Fiberdyne Part Number
Nortel 100% compliant, Gigabit Ethernet SFP, 1000Base-SX.	AA1419013	FDN-AA1419013
Nortel 100% compliant, Gigabit Ethernet SFP, 1000Base-LX.	AA1419015	FDN-AA1419015

## HP Compatible SFPs

Description	Part Number	Fiberdyne Part Number
HP 100% compliant, Gigabit Ethernet SFP, 1000Base-SX.	J4858A	FDN-J4858A
HP 100% compliant, Gigabit Ethernet SFP, 1000Base-LX.	J4859A	FDN-J4859A
HP 100% compliant, Gigabit Ethernet SFP, 1000Base-ZX.	J4860A	FDN-J4860A
HP 100% compliant, Gigabit Ethernet SFP, 1000Base-SX.	J4858B	FDN-J4858B
HP 100% compliant, Gigabit Ethernet SFP, 1000Base-LX.	J4859B	FDN-J4859B
HP 100% compliant, Gigabit Ethernet SFP, 1000Base-ZX.	J4860B	FDN-J4860B
HP 100% compliant, Gigabit Ethernet SFP, 1000Base-SX.	J4858C	FDN-J4858C
HP 100% compliant, Gigabit Ethernet SFP, 1000Base-LX.	J4859C	FDN-J4859C
HP 100% compliant, Gigabit Ethernet SFP, 1000Base-ZX.	J4860C	FDN-J4860C