

Description:

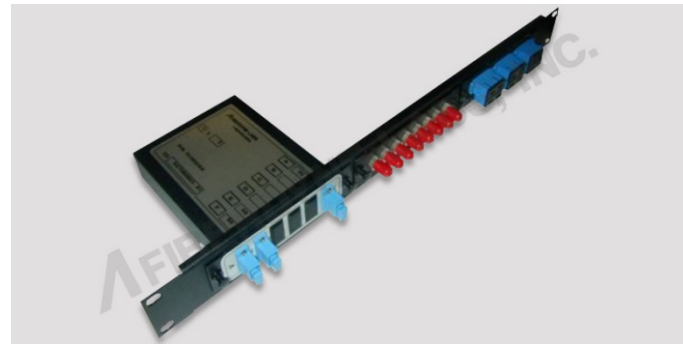
Fiberdyne Labs is pleased to offer an advanced technology product line equivalent to the Cisco® WDM series of CWDM passive devices. The Fiberdyne product offerings are available in two industry standard form factors. Our LGX series provides a functional equivalent to the Cisco® CWDM passive modules, packaged in the popular and compact LGX module footprint. Our Cisco® compatible module series are available packaged in a Cisco® compatible footprint.

Both the LGX series modules and the Cisco® compatible modules are 100% functionally equivalent to Cisco®.

Our complete product series consists of rack mount 19" chassis variants available for both the LGX and Cisco® compatible for factors, 4 and 8 channel mux/demux modules, optical add/drop modules, 1310/1550 WDM "Y" splitter cable, fiber jumper cable assemblies and Cisco® compatible SFPs.

Features and Benefits:

- Up to 80% cost savings vs Cisco®
- One year product warranty vs Cisco® 90 day warranty
- Wide operating temperature specifications: -20~75°C
- Available in smaller LGX form factor
- Available in any customer designed form factor
- Pass through port can be added to mux/demux at time of purchase
- Optical variable attenuator can be added to mux/demux
- 1310/1550 WDM splitter can be customized with LC, LC/APC, SC, SC/APC, ST, MU, FC, etc.
- Modules can be customized to include 1310 ports and optics
- Modules are protocol independent
- Low insertion loss
- Monitor ports are all mux/demux and OADMs
- 1300-nm transparency
- External WDM (Y-cable) splitter-cable for adding 1300-nm
- Compatible with Gig, 10GbE, 40GbE, 100GbE, DWDM
- Compatible with any manufacturers Gig, 10 Gigabit CWDM SFPs
- Designed and developed by Fiberdyne Labs, a 20-year optical engineering firm



1U High 3 Slot Panel CTM-018



4U High Rack-mount 12 Slot Panel CTM-072

Specifications:

Maximum Insertion Loss in dB for each passive CWDM filter
(Standard Temperature Range -20 to 75°C)

Model	Maximum Insertion Loss (dB)			
	Add/Drop Multiplexer	Pass 1550	Pass 1300	Monitor
CWDM-MUX8A=	2.4	-	-	17
CWDM-OADM4-x=	.4	2.5	2.5	17
CWDM-OADM1-xxxx=	1.8	1.7	1	17

Specifications: CWDM OADM

Parameters		1Ch	2Ch	4Ch	8Ch
Center Wavelength (nm)		ITU, ITU+1			
Passband (nm)		ITU±6			
Operating Wavelength (nm)		1460~1620 or 1260~1620			
Channel Space (nm)		20			
Fiber Type		SMF-28e or customer specified			
IL (dB) (P/A Grade)	Add & Drop Channel	0.5/0.6	0.7/1.0	1.4/1.7	2.0/2.5
	Express Channel	0.6/0.8	1.2/1.4	1.8/2.0	3.6/3.8
Isolation (dB)	Add & Drop Adjacent Channel	30			
	Add & Drop Non-Adjacent Channel	50			
	Express Channel	25			
Ripple (dB)		0.3	0.3	0.4	0.5
Monitor		17			
PDL (dB)		0.1			
PMD (ps)		0.1			
RL (dB)		45			
Directive (dB)		50			
Maximum Optical Power (mw)		500			
Operating Temperature (°C)		-20~75			
Storage Temperature (°C)		-40~85			
LGX Package		1U, 2U			
19" Rack mount Package		1U			

Notes:

1. Specified without connectors
2. Add an additional 0.2dB loss per connector

Fiberdyne Part Number	Cisco® Part Number	Description
FPM-CWDM-MUX8A-LGX	CWDM-MUX8A=	Fiberdyne Cisco® Compatible Passive Module 8-channel (1470, 1490, 1510, 1530, 1550, 1570, 1590, and 1610) Multiplexer/Demultiplexer with monitor ports and LC connectors in a LGX Module
FPM-CWDM-OADM4-1-LGX	CWDM-OADM4-1=	Fiberdyne Cisco® Compatible Passive Module 4 Channels (1470, 1490, 1510, and 1530) OADM with Monitor Ports and LC connectors in a LGX Module
FPM-CWDM-OADM4-2-LGX	CWDM-OADM4-2=	Fiberdyne Cisco® Compatible Passive Module 4 Channels (1550, 1570, 1590, and 1610) OADM with Monitor Ports and LC connectors in a LGX Module
FPM-CWDM-OADM1-1470-LGX	CWDM-OADM1-1470=	Fiberdyne Cisco® Compatible Passive Module Single-wavelength (1470) Dual-Channel OADM with Monitor Ports and Upgrade Ports, LC connectors in a LGX Module
FPM-CWDM-OADM1-1490-LGX	CWDM-OADM1-1490=	Fiberdyne Cisco® Compatible Passive Module Single-wavelength (1490) Dual-Channel OADM with Monitor Ports and Upgrade Ports, LC connectors in a LGX Module
FPM-CWDM-OADM1-1510-LGX	CWDM-OADM1-1510=	Fiberdyne Cisco® Compatible Passive Module Single-wavelength (1510) Dual-Channel OADM with Monitor Ports and Upgrade Ports, LC connectors in a LGX Module
FPM-CWDM-OADM1-1530-LGX	CWDM-OADM1-1530=	Fiberdyne Cisco® Compatible Passive Module Single-wavelength (1530) Dual-Channel OADM with Monitor Ports and Upgrade Ports, LC connectors in a LGX Module
FPM-CWDM-OADM1-1550-LGX	CWDM-OADM1-1550=	Fiberdyne Cisco® Compatible Passive Module Single-wavelength (1550) Dual-Channel OADM with Monitor Ports and Upgrade Ports, LC connectors in a LGX Module
FPM-CWDM-OADM1-1570-LGX	CWDM-OADM1-1570=	Fiberdyne Cisco® Compatible Passive Module Single-wavelength (1570) Dual-Channel OADM with Monitor Ports and Upgrade Ports, LC connectors in a LGX Module
FPM-CWDM-OADM1-1590-LGX	CWDM-OADM1-1590=	Fiberdyne Cisco® Compatible Passive Module Single-wavelength (1590) Dual-Channel OADM with Monitor Ports and Upgrade Ports, LC connectors in a LGX Module
FPM-CWDM-OADM1-1610-LGX	CWDM-OADM1-1610=	Fiberdyne Cisco® Compatible Passive Module Single-wavelength (1610) Dual-Channel OADM with Monitor Ports and Upgrade Ports, LC connectors in a LGX Module
FPM-CWDM-MUX-4-SF1-LGX	CWDM-MUX-4-SF1=	Fiberdyne Cisco® Compatible Passive Module 4 Channels (1470, 1510, 1550, and 1590) Single-Fiber Multiplexer/Demultiplexer packaged in an LGX module (to be deployed always in conjunction with PN: FPM-CWDM-MUX-4-SF2-LGX)
FPM-CWDM-MUX-4-SF2-LGX	CWDM-MUX-4-SF2=	Fiberdyne Cisco® Compatible Passive Module 4 Channels (1490, 1530, 1570, and 1610) Single-Fiber Multiplexer/Demultiplexer packaged in an LGX module (to be deployed always in conjunction with PN: FPM-CWDM-MUX-4-SF1-LGX)
FYC-WDM-1300-1550-S	WDM-1300-1550-S	Fiberdyne Cisco® Compatible "Y" cable Single Mode SC Connector on Network and 1300 Legs, LC Connector on 1550 Leg (Other connector configurations are available)
CTM-018	N/A	Fiberdyne 19" 1U 3 Slot LGX Panel w/out cable management
CTM-072	N/A	Fiberdyne 19" 4U 12 Slot "L" Panel with cable management