

Introduction:

Fiberdyne Labs, Inc. manufactures a Dense Wave Division Multiplexer that is 100% plug compatible with the Cisco® ONS 15200 Series at a cost that is 50% less. Fiberdyne Labs, Inc. offers both **Red** and **Blue** compatible filters.

Red Filter- a passive device comprising a 200-GHz, 9X1, wavelength unidirectional multiplexer and a 200-GHz, 1X9, wavelength unidirectional demultiplexer operating in the 1546 to 1561-nm band.

Blue Filter- a passive device comprising a 200-GHz, 9X1, wavelength unidirectional multiplexer and a 200-GHz, 1X9, wavelength unidirectional demultiplexer operating in the 1530 to 1545-nm band.



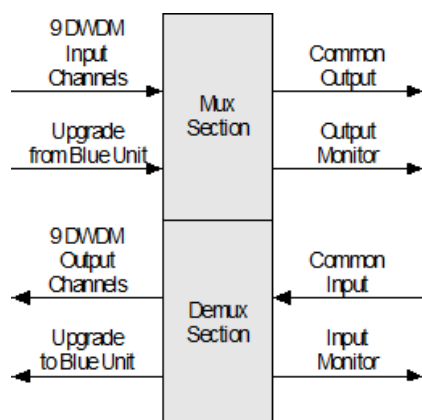
Features and Benefits:

- Leverages existing fiber optic facilities to support greater bandwidth and traffic
- Fast and easy deployment
- Compact size permits installation in space restricted environments
- Additional wavelengths are as simple as plugging jumpers into a patch panel
- Equipped with integral fiber retainers which protect bend radius and eliminate sharp edges
- All ports are front panel loaded for easier installation and maintenance
- Cost savings of 50% saves resellers and end user's valuable funds

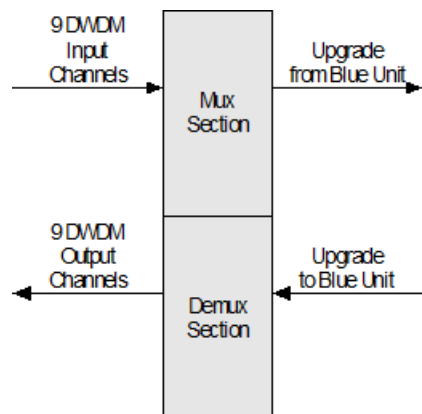
Fiberdyne Labs, Inc. also offers 100% compatible OADMs
(Optical Add/ Drop Multiplexers)

Conceptual Usage:

Base (Red) Unit:



Upgrade (Blue) Unit:



Specifications:

<i>Item Description</i>	<i>Unit</i>	<i>Value</i>	
Channel Spacing	GHz	200	
Wavelength per Channel	nm	Base (Red) Unit	Upgrade (Blue) Unit
		1547.72	1530.33
		1549.32	1531.90
		1550.92	1533.47
		1552.52	1535.04
		1554.13	1536.61
		1555.75	1538.19
		1557.36	1539.77
		1558.98	1541.35
		1560.61	1542.94
Channel Specification		Per ITU G.694.1	
Passband @ -0.5 dB	nm	> 0.6	
Channel Uniformity	dB	< 1.5	
Passband Flatness	dB	< 0.5	
Pair Insertion Loss (end-to-end, including 2 connector losses)	dB	< 7.0	
Monitor Port Insertion Loss - Multiplexer (1% tap) - Demultiplexer (5% tap)	dB	< 24.8	
		< 13.4	
Demux Isolation: - adjacent channels - non-adjacent channels	dB	> 25	
		> 40	
Directivity	dB	> 50	
Return Loss	dB	> 45	
Temperature – Operating *	°C	0 to 70	
Temperature – Storage *	°C	-40 to +85	
* Humidity (non-condensing)	%	5 to 95	
Connectors		SC/UPC	
Package Size: Rackmount (reversible ears):	inch	1.75 x 17.4 x 8.5 19 or 23	

Fiberdyne Part Number	Product Description
FD15216-DWDM-BLUE	ITU-200 GHZ 9X9 Mux/Demux (15216-MD9-2-Blue Compatible)
FD15216-DWDM-BLUES	ITU-200 GHZ 9X9 Blue Mux/Demux (15216-MD9-2-Blue = Compatible)
FD15216-DWDM-RED	ITU-200 GHZ 9X9 Red Mux/Demux (15216-MD9-2-Red Compatible)
FD15216-DWDM-REDS	ITU-200 GHZ 9X9 Red Mux/Demux (15216-MD9-2-Red = Compatible)

Part Number	Product Description
FD15216-OADM1560.61	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1560.61nm (15216-AD1-2-60.6 = Compatible)
FD15216-OADM1558.98	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1558.98nm (15216-AD1-2-58.9 = Compatible)
FD15216-OADM1557.36	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1557.36nm (15216-AD1-2-57.3 = Compatible)
FD15216-OADM1555.75	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1555.75nm (15216-AD1-2-55.7 = Compatible)
FD15216-OADM1554.13	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1554.13nm (15216-AD1-2-54.1 = Compatible)
FD15216-OADM1552.52	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1552.52nm (15216-AD1-2-52.5 = Compatible)
FD15216-OADM1550.92	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1550.92nm (15216-AD1-2-50.9 = Compatible)
FD15216-OADM1549.32	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1549.32nm (15216-AD1-2-49.3 = Compatible)
FD15216-OADM1547.72	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1547.72nm (15216-AD1-2-47.7 = Compatible)
FD15216-OADM1542.94	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1542.94nm (15216-AD1-2-42.9 = Compatible)
FD15216-OADM1541.35	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1541.35nm (15216-AD1-2-41.3 = Compatible)
FD15216-OADM1539.77	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1539.77nm (15216-AD1-2-39.7 = Compatible)
FD15216-OADM1538.19	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1538.19nm (15216-AD1-2-38.1 = Compatible)
FD15216-OADM1536.61	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1536.61nm (15216-AD1-2-36.6 = Compatible)
FD15216-OADM1535.04	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1535.04nm (15216-AD1-2-35.0 = Compatible)
FD15216-OADM1533.47	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1533.47nm (15216-AD1-2-33.4 = Compatible)
FD15216-OADM1531.90	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1531.90nm (15216-AD1-2-31.9 = Compatible)
FD15216-OADM1530.33	ITU-200 GHZ 1-Channel, 2 path OADM ch. 1530.33nm (15216-AD1-2-30.3 = Compatible)

Fiberdyne Part Number	Product Description
FD15216-OADM1558.98-1557.36	ITU-200 GHZ 2-Channel, 2 path OADM ch. 1558.98nm, 1557.36nm (15216-AD2-2-58.9 = Compatible)
FD15216-OADM1555.75-1554.13	ITU-200 GHZ 2-Channel, 2 path OADM ch. 1555.75nm, 1554.13nm (15216-AD2-2-55.7 = Compatible)
FD15216-OADM1552.52-1550.92	ITU-200 GHZ 2-Channel, 2 path OADM ch. 1552.52nm, 1550.92nm (15216-AD2-2-52.5 = Compatible)
FD15216-OADM1549.32-1547.72	ITU-200 GHZ 2-Channel, 2 path OADM ch. 1549.32nm, 1547.72nm (15216-AD2-2-49.3 = Compatible)
FD15216-OADM1542.94-1541.35	ITU-200 GHZ 2-Channel, 2 path OADM ch. 1542.94nm, 1541.35nm (15216-AD2-2-42.9 = Compatible)
FD15216-OADM1539.77-1538.19	ITU-200 GHZ 2-Channel, 2 path OADM ch. 1539.77nm, 1538.19nm (15216-AD2-2-39.7 = Compatible)
FD15216-OADM1536.61-1535.04	ITU-200 GHZ 2-Channel, 2 path OADM ch. 1536.61nm, 1535.04nm (15216-AD2-2-36.6 = Compatible)