Fiberdyne's rack-mount module separates and outputs a sample of each CWDM (Coarse Wavelength Division Multiplexing) signal on a fiber optic link. The sample is a small percentage of the original signal. The output is filtered, providing only the selected CWDM channel. The result is a monitoring capability, which does not interfere with the link.

8-Channel Module with SC Connectors

Conceptual Usage:

Add the Monitor Module to an existing, multiplexed link. A small sample of each signal is "sent" to the Output ports. Connect measurement/monitoring equipment, such as power meter or network analyzer, to the module outputs. When finished monitoring disconnect the instrument. The network is left undisturbed.
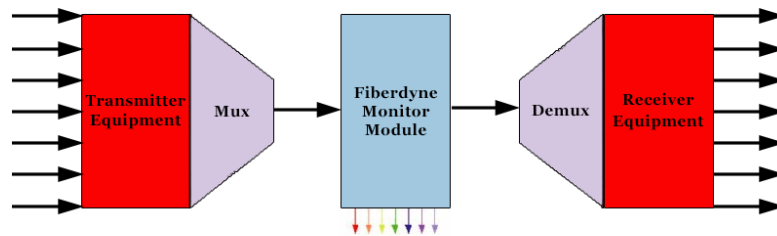
Output low-power samples of each multiplexed signal from the link.
(Non-instrusive monitoring of each signal.)

Note: Fiberdyne Monitor Modules can be used with all ITU-compliant, mux/demux modules, including Fiberdyne's mux/demux modules.

Features:
- Center wavelengths and spacing comply with ITU-T G.694.2
- Integrated fiber-optic splitter and CWDM demultiplexer

- Ports clearly labeled with CWDM wavelength
- 1U module with reversible brackets, for 19-inch and 23-inch rack frames

Standard Configurations:
- One standard configuration:
    - 8-wavelength module
    - 1470-1610 nm, 20-nm spacing
- Standard CWDM wavelengths, according to the ITU-T G.694.2
- Rack-mount module, 1U high, 19/23-inch rack frames (reversible brackets)

Options:
- Alternate channel configurations are possible
  Note: insertion losses may vary slightly among outputs.
- Standard fiber-optic connectors: FC, LC, SC, ST (UPC or APC)
- Pigtail modules also available
- Tap percentage: 10%, 5%, and 1%

Specifications:

Item Description	Unit	Value
Wavelength, Input/output	nm	per ITU-T G.694.2
Center Wavelength Spacing	nm	20
Pass Band, Demux Signal	nm	> 13
Optical Power, Input	mW	< 300
Return Loss	dB	>50
Polarization Dependent Loss (PDL)	dB	< 0.1
Adjacent Channel Isolation	dB	> 30
Non-adjacent Channel Isolation	dB	> 50
Temperature – Operating	°C	-10 to +65
Temperature – Storage	°C	-40 to +85
Package dimensions (W x D x H) - not including rack-mount brackets	inch cm	17 x 6 x 1.72 43.2 x 15.3 x 4.4

Maximum Insertion Loss* (dB) vs. Tap Percentage (for 8-channel module)

Tap (%)	10	5	1
"Common In" to "Common Out"	0.7	0.5	0.3
"Common In" to "Monitor" outputs	12.2	15.7	24.7

* Note: Insertion loss values do not include connector loss.

FIBERDYNE LABS, INC.

Part Number Build Matrix

F	C	M	O	N	-	X	X	X	-	X	X	-	X	X	X
1	2	3	4	5	-	6	7	8	-	9	10	-	11	12	13
F	C	M	O	N	-				-			-			

FCMON = Fiberdyne Labs "Coarse-WDM Monitor-Module"

Digit #	Description	Options**
6th	Wavelength Spacing	1 = 20nm
7th & 8th	Number of Wavelengths	08 = 8-channel (standard: 1470-1610nm)
9th & 10th	Tap Percentage	01 = 1% (99/01 split) 05 = 5% (95/05 split) 10 = 10% (90/10 split)
11th	Package	1 = rackmount, 1U, 19/23-inch
12th	Connector Type	1 = Adapter, Bulkhead 2 = Pigtail, heavy-duty (e.g. 3-mm/2-mm) ***
13th	Connector Style	1 = FC 2 = FC/APC 3 = SC 4 = SC/APC 5 = ST 6 = LC X = Other; must list in "Special Instructions" **

Note: ** Add "Special Instructions" for custom configurations. Use "X" in the part number; then list details of unique configuration. For example: if the 7th and 8th digits are "04", then list the following. "Special Instructions (7th/8th digit): 4-wavelengths – 1550-1610nm."

***Pigtailed jacket types are 3-mm for FC/SC/ST and 2-mm for LC.