M-OADMx-xxxyyy DWDM OADM SERIES

100GHz, DWDM dual fiber OADMs

PRODUCT FEATURES

- Flexible OADM networking
- 1/2/4 channel East & West / East or West
- Mid span access nodes for amplification and dispersion
- Passive 1U modular design
- No electric power required. (MTBF ca. 500 years)

DESCRIPTION

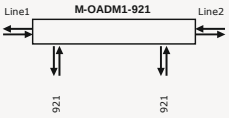
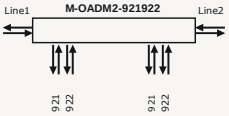
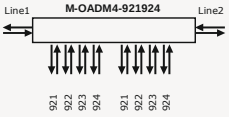
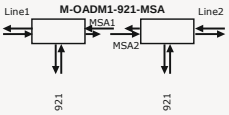
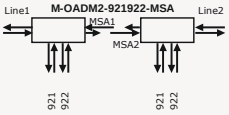
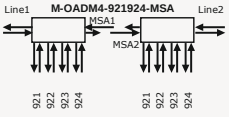
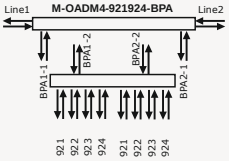
Smartoptics dual fiber M-OADMx-xxxyyy series is a versatile range of DWDM OADM modules for East and West or single sided East or West (line terminal) traffic configurations. Protocol transparent and suited to 10/1G Ethernet, 16/8/4/2/1G FC, SDH/SONET, Video, CATV, FTTx applications.

Mid-span access (MSA) and Booster Preamp access (BPA) models exist to offer even more flexibility to add/drop networking. The MSA is a 1/2/4 channel OADM with a mid-stage access node. This node allows access to be gained to the midpoint of the OADM for example DCM or amplifier connection. Ideal if dispersion or amplification is not along the entire link. The BPA module allows access to the add drop channels. This is ideal if for example there is a mix of ER and ZR traffic in a network and add or drop channels need to be amplified being connecting back to the line fiber.

ORDERING INFORMATION

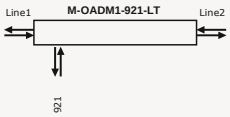
Part number	Description
DWDM East or West OADM	
M-OADM1-xxx-LT	1 ch. DWDM OADM, 100GHz, East or West, Dxxx, IL A/D=1.2dB, IL BP=0.8dB, LC
M-OADM2-xxxyyy-LT	2 ch. DWDM OADM, 100GHz, East or West, Dxxx-Dyyy, IL A/D=1.8dB, IL BP=1.2dB, LC
M-OADM4-xxxyyy-LT	4 ch. DWDM OADM, 100GHz, East or West, Dxxx-Dyyy, IL A/D=2.8dB, IL BP=0.6dB, LC
DWDM east and west OADM	
M-OADM1-xxx	1 ch. DWDM OADM, 100GHz, East and West, Dxxx, IL A/D=1.2dB, IL BP=1.2dB, LC
M-OADM2-xxxyyy	2 ch. DWDM OADM, 100GHz, East and West, Dxxx-Dyyy, IL A/D=1.8dB, IL BP=1.8dB, LC
M-OADM4-xxxyyy	4 ch. DWDM OADM, 100GHz, East and West, Dxxx-Dyyy, IL A/D=3.2dB, BP=1.2dB, LC
Mid-stage access for amplified OADM networks	
M-OADM1-xxx-MSA	1 ch. DWDM OADM, 100GHz, East and West, Dxxx, IL A/D=1.2dB, IL BP=0.8dB, LC, mid stage access
M-OADM2-xxxyyy-MSA	2 ch. DWDM OADM, 100GHz, East and West, Dxxx-Dxxx, IL A/D=1.8dB, IL BP=1.2dB, LC, mid stage access
M-OADM4-xxxyyy-MSA	4 ch. DWDM OADM, 100GHz, East and West, Dxxx-Dxxx, IL A/D=2.8dB, IL BP=0.6dB, LC, mid stage access
Booster/preamp OADM for client access	
M-OADM4-xxxyyy-BPA	4 ch. DWDM OADM, 100GHz, East and West, Dxxx-Dxxx, IL A/D=3.2dB, IL BP=1.2dB, LC, booster preamp client access

GENERAL SPECIFICATIONS

Front View	Function	Specification
East and West DWDM OADMs		
M-OADM1-xxx 		1 channel OADM (East & West) IL bypass channel: <1.2 dB IL add/drop channel: <1.2 dB
M-OADM2-xxxyyy 		2 channel, OADM (East & West) IL bypass channel: <1.8 dB IL add/drop channel: <1.8 dB
M-OADM4-xxxyyy 		4 channel, OADM (East & West) IL bypass channel: <1.2 dB IL add/drop channel: <3.2 dB
Mid stage access for OADM networks		
M-OADM1-xxx-MSA 		1 channel, OADM Mid Stage Access (East & West) IL bypass channel: <0.8 dB IL add/drop channel: <1.2 dB
M-OADM2-xxxyyy-MSA 		2 channel, OADM Mid Stage Access (East & West) IL bypass channel: <1.2 dB IL add/drop channel: <1.8 dB
M-OADM4-xxxyyy-MSA 		4 channel, OADM Mid Stage Access (East & West) IL bypass channel: <0.6 dB IL add/drop channel: <2.8 dB
Booster/preamp access for OADM for client access		
M-OADM4-xxxyyy-BPA 		4 channel, OADM Amplified Access (East & West) IL bypass channel: <1.2 dB IL add/drop channel: <3.2 dB

East or West DWDM OADMs

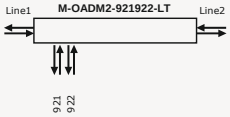
M-OADM1-xxx-LT



1 channel OADM (East or West)

IL bypass channel: <0.8 dB
IL add/drop channel: <1.2 dB

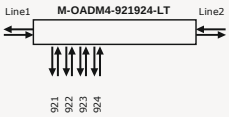
M-OADM2-xxxyyy-LT



2 channel, OADM (East or West)

IL bypass channel: <1.2 dB
IL add/drop channel: <1.8 dB

M-OADM4-xxxyyy-LT



4 channel, OADM (East or West)

IL bypass channel: <0.6 dB
IL add/drop channel: <2.8 dB

Wavelength plan	
M-1601 channel plan	OADM1-xxx = 921 to 936
	OADM2-xxxyyy = 921922; 923924; 925926; 927928; 929930; 931932; 933934; 935936
	OADM4-xxxyyy = 921924; 925928; 929932; 933936
M-1600 channel plan	OADM1-xxx = 943 to 958
	OADM2-xxxyyy = 943944; 945946; 947948; 949950; 9519952; 953954; 955956; 957958
	OADM4-xxxyyy = 943946; 947950; 951954; 955958