MODULAR MUX

1. GENERAL DESCRIPTION

Multiplexer products combine multiple data signals into one signal for transport over one fiber. De-multiplexers separate the signal at the other end. Wavelength division multiplexing (WDM) greatly increases capacity of systems. To manage bandwidth and expand capacity of existing fiber optic backbones, Wavelength Division Multiplexing (WDM) works by simultaneously combining and transmitting multiple signals at different wavelengths through the same fiber.

A key advantage of WDM is its protocol and bit-rate independency. WDM-based networks can transmit data in IP, ATM, SONET/SDH, and Ethernet. It can handle bitrates between 100 Mbps and 40 Gbps. Therefore, WDM-based networks can carry different types of traffic at different speeds. It creates a less costly method for quick response to customers' bandwidth demands and protocol changes.
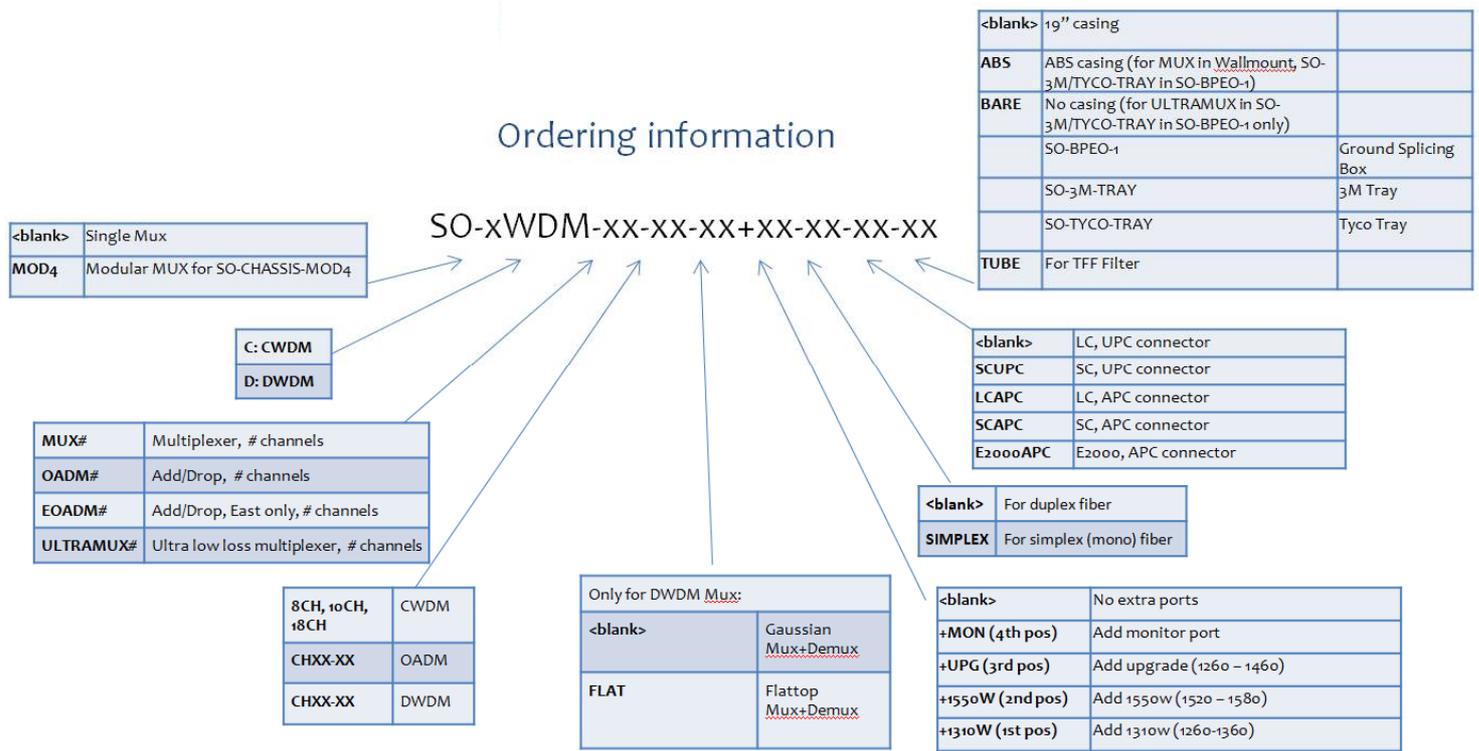
The Modular Mux with 4 slots gives flexibility to deploy either coarse or dense wavelength division multiplexing (CWDM/DWDM) modules, OADM or MPO Fan out. The device is passive when it comes to electricity and measures as 1RU 19" devices. It has 4 trenches on the backplane for connectivity.

Custom versions are available upon request.

2. AVAILABLE DEFAULT VERSIONS

PARtTNAME	DESCRIPTION
SO-CHASSIS-MOD4 (*picture1 general descript.)	Modular 19"Chassis with 4 slots, 1RU
SO-MOD4-CWDM-MUX-8CH+UPG+MON	Mux Module; 8CH CWDM, Mux/Demux, 1470-1610nm (+/- 6.5nm), Duplex, + UPG (1260-1458nm), + MON (Monitor Port), LC/UPC connectors, to be used in SO-CHASSIS-MOD4
SO-MOD4-DWDM-MUX-CH28-35+UPG+1310W+MON	Mux Module; 8CH DWDM, Mux/Demux, CH28-35 (100GHz ITU Grid C-Band), Duplex, + UPG (1500-1620nm), +1310W (Wide for 1/10/40/100G), + MON (Monitor Port), LC/UPC connectors, to be used in SO-CHASSIS-MOD4

www.solid-optics.com

us@solid-optics.com   855 678 4271
eu@solid-optics.com   +31 883 423 776

De Huchtstraat 35
1327 EC Almere
The Netherlands

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3. CUSTOM VERSIONS

Ordering information

SO-xWDM-xx-xx-xx+xx-xx-xx-xx

<blank>	19" casing	
ABS	ABS casing (for MUX in Wallmount, SO-3M/TYCO-TRAY in SO-BPEO-1)	
BARE	No casing (for ULTRAMUX in SO-3M/TYCO-TRAY in SO-BPEO-1 only)	
	SO-BPEO-1	Ground Splicing Box
	SO-3M-TRAY	3M Tray
	SO-TYCO-TRAY	Tyco Tray
TUBE	For TFF Filter	

<blank>	Single Mux
MOD4	Modular MUX for SO-CHASSIS-MOD4

C: CWDM
D: DWDM

MUX#	Multiplexer, # channels
OADM#	Add/Drop, # channels
EOADM#	Add/Drop, East only, # channels
ULTRAMUX#	Ultra low loss multiplexer, # channels

8CH, 10CH, 18CH	CWDM
CHXX-XX	OADM
CHXX-XX	DWDM

<blank>	LC, UPC connector
SCUPC	SC, UPC connector
LCAPC	LC, APC connector
SCAPC	SC, APC connector
E2000APC	E2000, APC connector

<blank>	For duplex fiber
SIMPLEX	For simplex (mono) fiber

Only for DWDM Mux:

<blank>	Gaussian Mux+Demux
FLAT	Flattop Mux+Demux

<blank>	No extra ports
+MON (4th pos)	Add monitor port
+UPG (3rd pos)	Add upgrade (1260 – 1460)
+1550W (2nd pos)	Add 1550w (1520 – 1580)
+1310W (1st pos)	Add 1310w (1260-1360)

4. PRODUCT SPECIFICATIONS & FEATURES

✓ Compatible with Technique: CWDM & DWDM, OADM, MPO FAN-OUT

✓ Passive; no electricity needed

✓ Max. Channels per module 13CH / LC

✓ Custom made modules on request

✓ 4 Module Slots

✓ 4 Trenches in the backplane for connectivity

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5. WARNING & SYMBOLS

CE   Solid Optics EN N.V. has tested the equipment based on European legislation and it is safe, doesn't intervene with other electronic devices and that it is not affected by interference from other Electronic devices.

RoHS   Hazardous Goods; Our equipment complies with Directive 2011/65/EU (RoHS II) and 2002/95 EC (RoHS I)

Only (dis)connect the equipment in a EPA (ESD Protected Area) while using only certified equipment and taking all necessary precautions as detailed in this chapter.

6. DISCLAIMER & COPYRIGHT

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