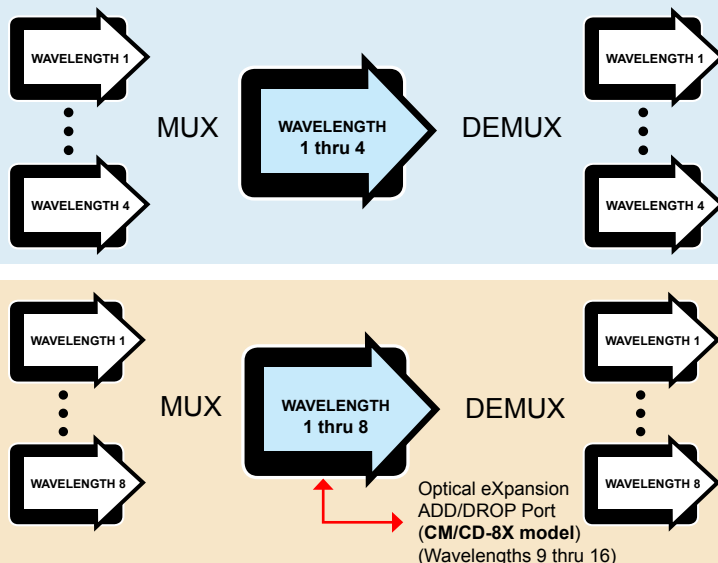


4 and 8 Channels Optical Multiplexer / Demultiplexer (With option for up to 16-channel support)



FEATURES:

- One slot (CM/CD-4) or two slot (CM/CD-8 & CM/CD-8X) rack card design
- Add / Drop Port option for eXpansion to 12 or 16 Channels MUX / DEMUX
- Passive optical multiplexer/demultiplexer for singlemode systems
- ST, FC Optical Connector
- Hot Swappable Cards
- Compatible with both uni-directional and bi-directional CWDM signals

CONFIGURATIONS:

The CM/CD-n products are available as rack mount cards and modules that can be installed in any of Meridian's desk chassis or in 19" racking frames. These systems can be transformed into standalone modules by utilizing an SR-500 series chassis (CM/CD-4 standard configuration) or an SR-1000 series chassis (CM/CD-8 standard configuration).

MARKETS:

- ✓ Intelligent transportation systems (ITS)
- ✓ Video / Audio / Data Transport systems
- ✓ Security and surveillance
- ✓ Video Conferencing

DESCRIPTION:

This CM/CD-n products are all passive, optical Multiplexers/ Demultiplexers.

Available in 4-channel, 8-channel or 8-channel with an Add/Drop expansion port for connecting to an additional 4 or 8-channel optical multiplexer/demultiplexer (16-channels total).

Each unit either combines or separates 4 or 8 individual wavelengths respectively to provide optical multiplexing over one singlemode fiber. All units are compatible with Meridian's other CWDM digital products. These product will combine or separate following optical wavelengths:

CM/CD-4	
Input / Output 3	1510nm
Input / Output 4	1530nm
Input / Output 5	1550nm
Input / Output 6	1570nm

CM/CD-4E (4 ch. Expansion Unit)	
Input / Output 2	1270nm
Input / Output 3	1290nm
Input / Output 4	1310nm
Input / Output 5	1330nm

CM/CD-8, CM/CD-8X	
Input / Output 1	1470nm
Input / Output 2	1490nm
Input / Output 3	1510nm
Input / Output 4	1530nm
Input / Output 5	1550nm
Input / Output 6	1570nm
Input / Output 7	1590nm
Input / Output 8	1610nm

CM/CD-8E (8 ch. Expansion Unit)	
Input / Output 1	1270nm
Input / Output 2	1290nm
Input / Output 3	1310nm
Input / Output 4	1330nm
Input / Output 5	1350nm
Input / Output 6	1370nm
Input / Output 7	1390nm
Input / Output 8	1410nm

Note: The expansion units CM/CD-4E and CM/CD-8E connected to expansion port on the CM/CD-8X unit will combine and separate the band of wavelengths between 1270-1330nm (CM/CD-4E card) or 1270-1410nm (CM/CD-8E card).

This will provide the ability to add 4 or 8 more CWDM wavelengths for a total of 12 to 16 CWDM wavelengths on one singlemode fiber.

For more info look at CM/CD-12 and CM/CD-16 data sheets.

SPECIFICATIONS:

Optical

Insertion Loss	1.5 dB (4-chan.), 2 dB (8-chan.)
Isolation	> 20 dB
Return Loss	> 30 dB
Wavelength (CM/CD-4).....	1510/1530/1550/1570 nm
Wavelength (CM/CD-8).....	1470/1490/1510/1530/1550/ 1570/1590/1610 nm
Wavelength CM/CD-8X	1470/1490/1510/1530/1550/ 1570/1590/1610 nm
Wavelength CM/CD-4E*	1270/1290/1310/1330 nm
Wavelength CM/CD-8E*	1270/1290/1310/1330/1350/ 1370/1390/1410 nm

*CM/CD-4E and CM/CD-8E are part numbers of 4 & 8 channels expansion units.

Connectors

Optical	ST for MM fiber (default) FC for SM fiber (default)
Power	None - passive

Quality

MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F
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Physical

Dimensions (CM/CD-4 Card)	160 mm (6.3") L, 127 mm (5") H 20mm (0.80") W
Weight (Card)	450 gms (16 Oz)
No. of Slots	1
Module	See SR-500 Brochure
Dimensions (CM/CD-8(X) Card).....	160 mm (6.3") L, 127 mm (5") H 44 mm (1.7") W
Weight (Card)	550 gms (19.4 Oz)
No. of Slots	2
Module	See SR-1000 Brochure

Environmental

Operating Temperature ...	-20°C to +70°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Part Numbers:

