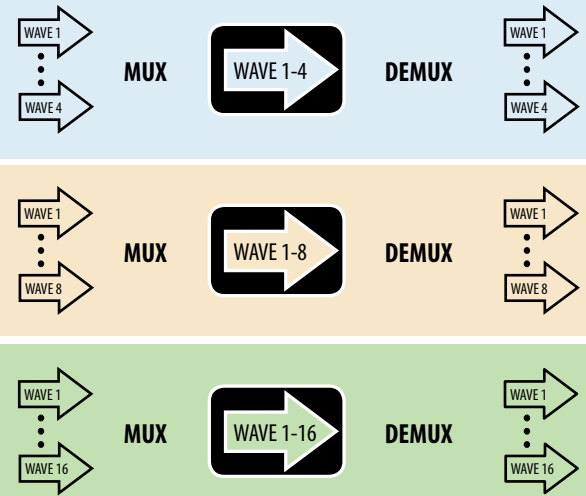
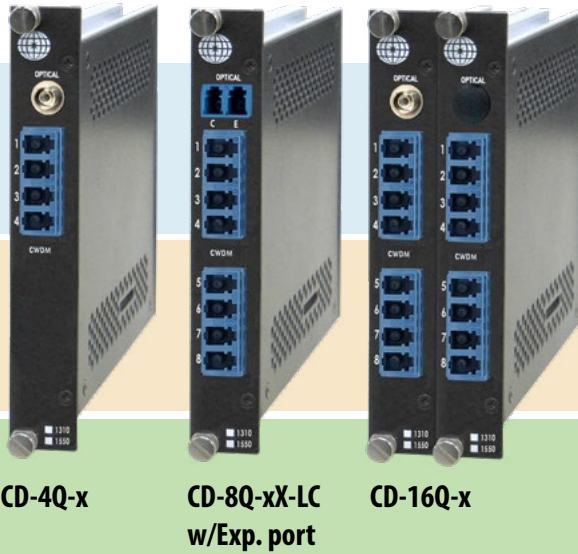


**4, 8 and 16 Channels CWDM Multiplexer / Demultiplexer  
 using LC Optical Interface**

**FEATURES:**

- One and two slot Rack Card Design
- Passive optical Multiplexer/Demultiplexer for Single-mode Systems
- CWDM Interface via LC Optical Couplers
- ST, FC and LC Optical Connector used for COMMON and EXPANSION ports
- Hot Swappable Cards
- Compatible with both Unidirectional and Bi-directional CWDM signals
- Class 1 Laser Safety Rating

**CONFIGURATIONS:**

The CD-nQ-x 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 in to standalone modules by utilizing an SR-500 series chassis.

**MARKETS:**

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

**DESCRIPTION:**

This CD-nQ-x products are all passive, CWDM Multiplexers/ Demultiplexers with LC Optical interface. Available in 4, 8 and 16 channels. Each unit either combines or separates 4, 8 or 16 individual wavelengths respectively to provide optical multiplexing over one single-mode fiber. All units are compatible with most Meridian's CWDM digital products. The ST, FC and LC options are available for COM and EXP ports. These products will combine or separate following optical wavelengths:

**CD-4Q-20**

Input / Output 2	1270nm
Input / Output 3	1290nm
Input / Output 4	1310nm
Input / Output 5	1330nm

**CD-4Q-21**

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

**CD-8Q-22**

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

**CD-8Q-23**

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

**CD-16Q-25**

Input / Output 1	1270nm	Input / Output 9	1470nm
Input / Output 2	1290nm	Input / Output 10	1490nm
Input / Output 3	1310nm	Input / Output 11	1510nm
Input / Output 4	1330nm	Input / Output 12	1530nm
Input / Output 5	1350nm	Input / Output 13	1550nm
Input / Output 6	1370nm	Input / Output 14	1570nm
Input / Output 7	1390nm	Input / Output 15	1590nm
Input / Output 8	1410nm	Input / Output 16	1610nm

## SPECIFICATIONS:

Optical						
Unit	CD-4Q-x		CD-8Q-x		CD-16Q-x	
Insertion Loss	1.5 dB		2 dB		2.5 dB	
Isolation	>30 dB		>30 dB		>30 dB	
Return Loss	>45 dB		>45 dB		>45 dB	
Optical Band	Optic code	Wavelength	Optic code	Wavelength	Optic code	Wavelength
	<b>20</b>	1270/1290/1310/1330 nm	<b>22</b>	1270/1290/1310/1330/1350/ 1370/1390/1410 nm	<b>25</b>	1270/1290/1310/1330/ 1350/1370/1390/1410/ 1470/1490/1510/1530/ 1550/1570/1590/1610 nm
	<b>21</b>	1510/1530/1550/1570 nm	<b>23</b>	1470/1490/1510/1530/1550/ 1570/1590/1610 nm		

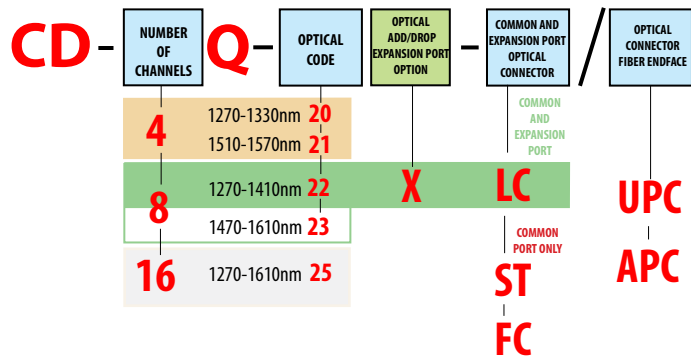
Connectors	
Optical	FC (default), ST (optional), LC (optional)
Power	None - passive

Quality	
MTBF	>170,000 hours (35°C per MIL 217F) 35°C per MIL217F

Physical		
Card	One slot card	Two slot card
Dimensions	160 mm (6.3") L, 127 mm (5") W 20mm (0.80") H	160 mm (6.3") L, 127 mm (5") W 44 mm (1.7") H
Weight	~ 450 grams (16 Oz.)	~ 550 grams (19.4 Oz.)
No. of Slots	1	2
Module	See SR-500 Brochure	See SR-1000 Brochure

Environmental	
Operating Temperature	-34°C to +74°C
Storage Temperature	-40°C to ~+85°C
Relative Humidity	0 to 95% Non-condensing

### Part Numbers:



### EXAMPLES OF APPLICATION:

