

NI-CW8

8-channel Coarse Wavelength Division Multiplexer/Demultiplexer

KEY FEATURES

- Passive Multiplexing or De-multiplexing
- Up to 8 channels

8-Channel CWDM Card

The NI-CW8 is a passive device for the multiplexing or de-multiplexing of different optical wavelengths onto or from a singlemode fiber optic cable. Each unit allows up to 8 channels to be combined /separated with a 20 nm wavelength spacing based around the ITU G.694.2 grid specifications.

Adding additional NI-CW4 or NI-CW8 cards allows the system to transmit a total of 16 independent wavelengths on a single fiber, proving to be a very cost effective solution for system designers working with third party leased fibers. The NI-CW8 occupies a single slot in any of the Nimbra 140 MMS series chassis, Nimbra 143 (3RU), Nimbra 141 (1RU) or the 3-slot enclosure, NI-120.

The NI-CW8 is also suitable for the Nimbra 141P chassis, which is specifically intended to house passive optical modules.



TECHNICAL SPECIFICATIONS

Coarse Wavelength Division Multiplexer for single mode Optical Fiber Systems

Connector:	LC
Channels	8, additional channels via multiple NI-CW4 or NI-CW8
Center wavelengths (nm)	1270/1290/1310/1330/ 1350/1370/1390/1410 or 1470/1490/1510/1530/ 1550/1570/1590/1610
Optical bandwidth	> 13 nm
Insertion loss	< 1.9 dB
Link loss for mux/demux pair	< 3.8 dB
Isolation Adjacent channel	> 30 dB
Non-adjacent channel	> 40 dB
Isolation spectral range	1260-1620 nm
Return Loss	> 45 dB (50 dB typ.)
Directivity	> 50 dB
Polarization dependent loss	< 0.2 dB

General Card Specifications

Depth	60 mm
Width	20 mm 4TE
Height	129 mm (3RU)
Weight	100 g
Operating Temp	0 to +70 °C
Max optical power	250 mW
No. of slots	1

Conformance

RoHS Complies with Directive 2002/95/EC

NB : All CWDM systems require specific "tuned" laser transmitters with individual 20 nm window output wavelengths.

Ordering Inspiration

NPS0071-14A1 NI-CW8, 8-Channel CWDM Card Centre Wavelengths 1270/1290/1310/1330/1350/1370/1390/1410 nm

NPS0071-14B1 NI-CW8, 8-Channel CWDM Card Centre Wavelengths 1470/1490/1510/1530/1550/1570/1590/1610 nm

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