YNXTechnik AG

Eduipmen

9 Channel CWDM Optical MUX/DEMUX

CardModules

Description

The OCM 5891 is a 9 channel CWDM passive optical multiplexer and/or de-multiplexer. This module allows the combination of up to 9 optical signals into a single unidirectional or bi-directional fiber link.

This version of the module supports 9 of the 18 wavelengths as specified in the ITU standard CWDM channel spacing grid (ITU-T G694.2) namely 1270nm through 1430nm wavelengths.

The module features a Upgrade Port (UPG) for expansion, when connected to the OCM 1892 the two modules (combined) will support all 18 CWDM wavelengths.

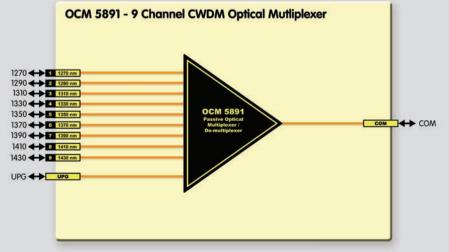
The module is passive in operation, meaning it requires no power, and is mechanically compatible with all Series 5000 rack frames and installs from the rear of the rack.

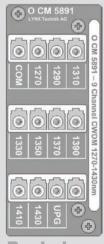
fiber

Features

- Mux and / or Demux up to 9 optical signals
- ITU standard wavelength divisions: ITU-T G694.2
- UPG (upgrade) port for expansion
- Passive operation
- Compatible will all Series 5000 rack frames (2RU and 1RU)
- Occupies one card slot
- LC PC connectors (singlemode)







Backplane



SERIES 5000

CardModules

9 Channel CWDM Optical MUX/DEMUX

Specifications

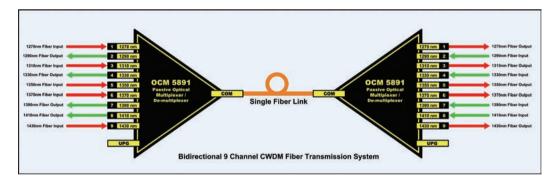
Optical I/O				
Optical I/O Ports	9 (Wavelength Specific)			
Supported I/O Wavelengths (ITU-T G694.2)	1270nm, 1290nm, 1310nm, 1330nm, 1350nm, 1370nm, 1390nm, 1410nm, 1430nn			
UPG Port	Upgrade port (for connection to OCM 5892)			
COM Port	Common I/O port (Primary I/O with combined optical signals)			
Connector Type	LC - PC (singlemode)			
Performance				
Channel insertion loss	2.7dB			
UPG port insertion loss	2.7dB			
Polarization dependant loss	max 0.2dB			
Return Loss	> 45dB			
Isolation (To adjacent channel)	> 30dB			
Directivity	> 55dB			
Temperature dependant loss	< 0.005 dB / °C			
Temperature dependant change of wavelength	< 0.003 nm / °C			
Max input power	500mw			

Mechanical				
Size	85mm x 286mm (not incl. connectors)			
Weight	190 g			
Ambient				
Temperature	-20 C to 85 C Maintaining specifications			
Humidity	90% Max non condensing			

Specifications subject to change

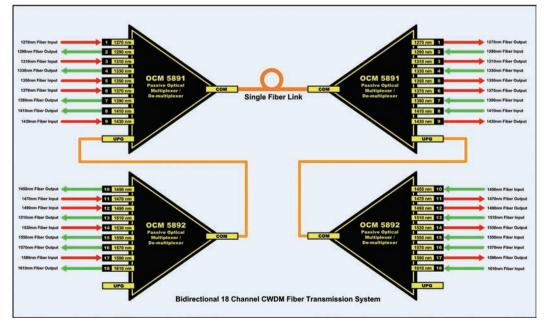
Applications

Two OCM 5891 modules used for a 9 channel bi-directional fiber transmission system.



This configuration shows how the UPG (upgrade) port is used to connect to the OCM 1892 to add 9 additional channels for a 18 channel bi-directional system.

Note: the mix of TX and RX channels in the bi-directional link is determined by the location of the transmitter and receiver modules. This can be any combination.



Ordering Information

Model #	Part Number	Description	Includes
OCM 5891	1000005891	9 Channel CWDM Multiplexer / De-multiplexer	CardModule + Mounting Screws + Reference Manual (on CD)