

Series 3000

CWDM Multiplexer & Demultiplexer

CWDM

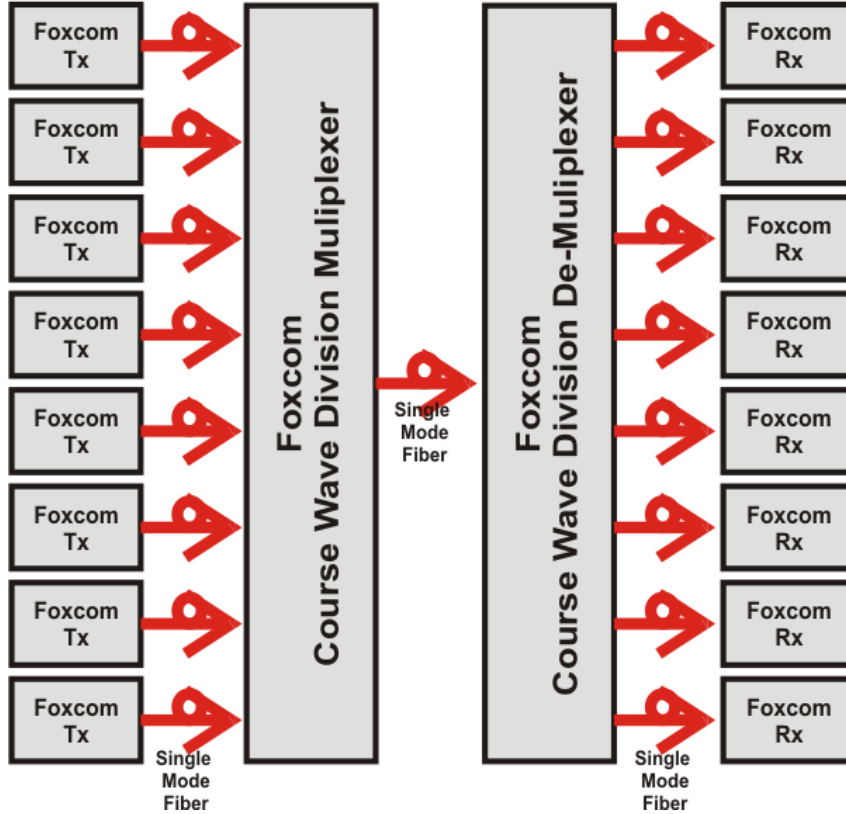
- *Multiplexes up to 16 L-Band & IF channels*
- *Reduce cost of leasing or laying fiber*
- *Thin film filter technology gives reliable and cost-effective performance*
- *1 RU Box for simple installation*
- *Protocol transparent*



Foxcom's Coarse Wavelength-Division Multiplexer (CWDM) can combine up to 16 fiber outputs from Foxcom fiberoptic transmitters into one single fiber. Each transmitter transmits on a different optical wavelength. CWDM technology uses ITU standard 20 nm spacing between the wavelengths, from 1270 nm to 1610 nm. Each wavelength is transmitted on a separate single mode fiberoptic cable and then multiplexed onto a single fiber. Foxcom's Coarse Wavelength-Division Demultiplexer reverses the process, separating the light into 16 separate fiber paths.

With Foxcom's CWDM solution, transmitting multiple L-Band and 70/140 IF Band signals over a single fiber becomes a simple and cost effective process. CWDM overcomes the need for installing new fiber or leasing cables. By using Foxcom's CWDM solution, transmission distances up to 50 kilometers can be achieved.

Typical Block Diagram - 8 Channel



Ordering Information

Description	Model
Multiplexer 8-channel	3000M
Demultiplexer 8-channel	3000E
Multiplexer 16-channel	30016M
Demultiplexer 16-channel	30016E

Specifications

Specification	8 Channels	Value	16 Channels
Up to 16 channels wavelengths	1270 to 1610 nm (excluding 1390 and 1410 nm)		
Channel center wavelength separation		20 nm	
Channel bandwidth at channel insertion loss		> 13 nm	
Insertion loss MUX/DEMUX combination	<4 dB		< 5.2 dB
Optical return loss	50 dB		45 dB
Adjacent channel isolation	> 30 dB		> 30 dB
Non-adjacent channel isolation	> 40 dB		> 50 dB
Channel Uniformity with MUX/DEMUX Combination	< 0.8 dB		
Total power input	500 mW max		
Polarization dependent loss	0.1 dB		
Wavelength thermal stability	0.005 nm / ° C		
Operating temperature	-10 to +70° C		
Storage temperature	-40 to +85° C		
Dimensions	1U x 19" x 12"		

FOXCOM
Complete RF-2-Fiber Solutions

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